

00351778-07-12009
662720-8/27560

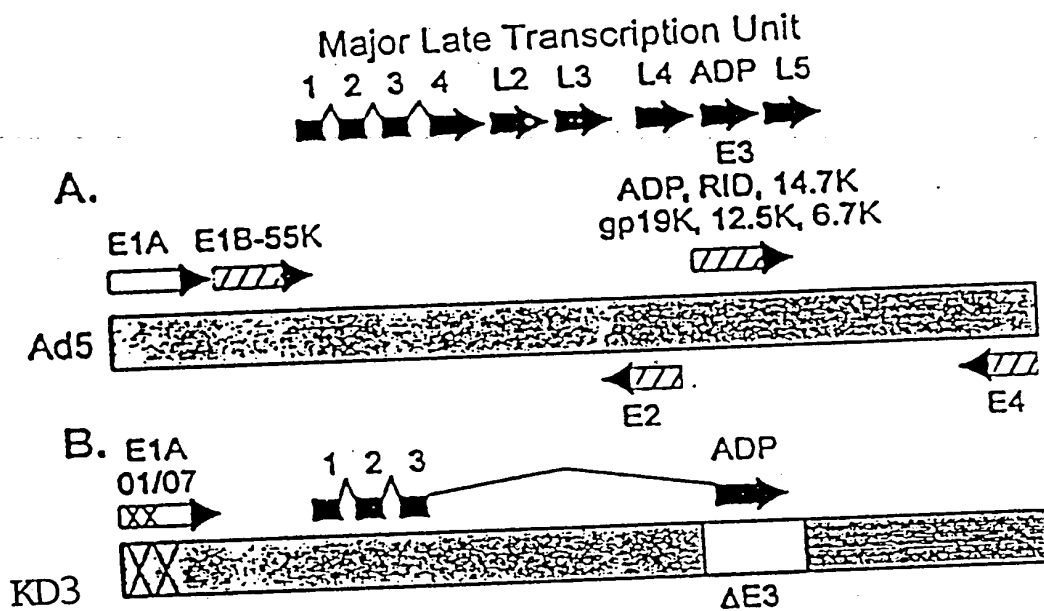


FIGURE 1

ADP Is Expressed Earlier in Infection By KD1, KD3, GZ1, and GZ3

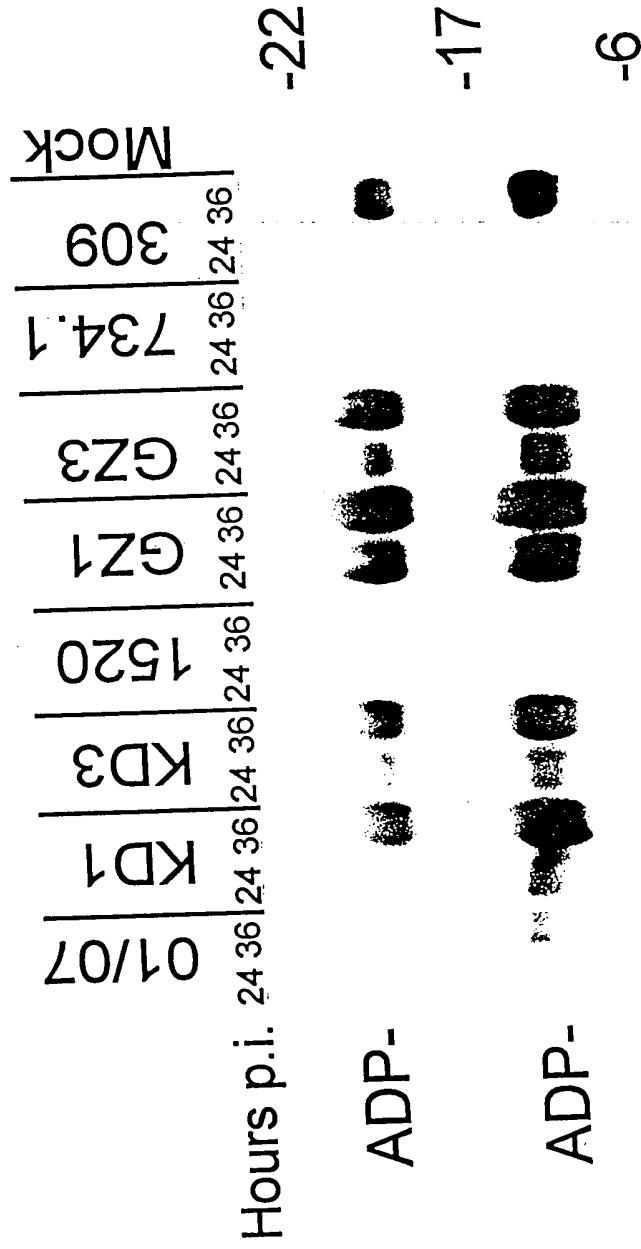


FIGURE 2

The E1A 01/07 Mutation Retards Late Gene Expression

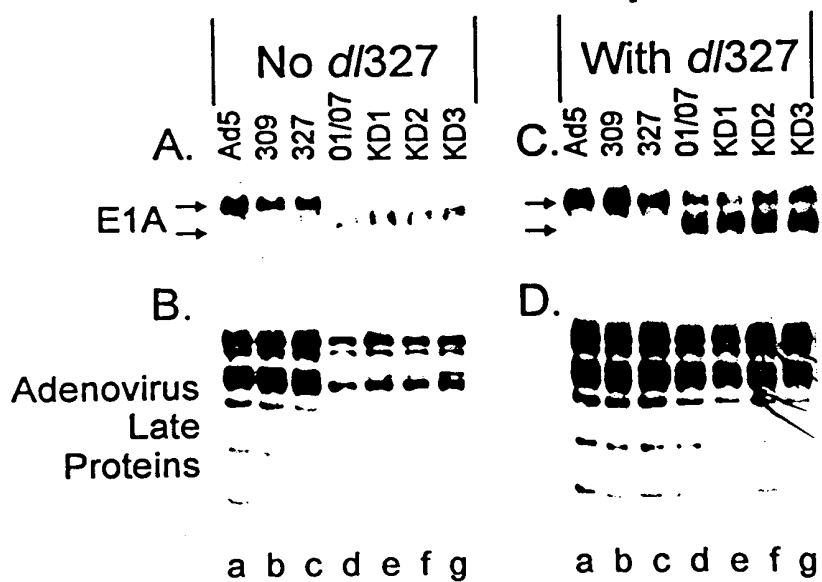


FIGURE 3

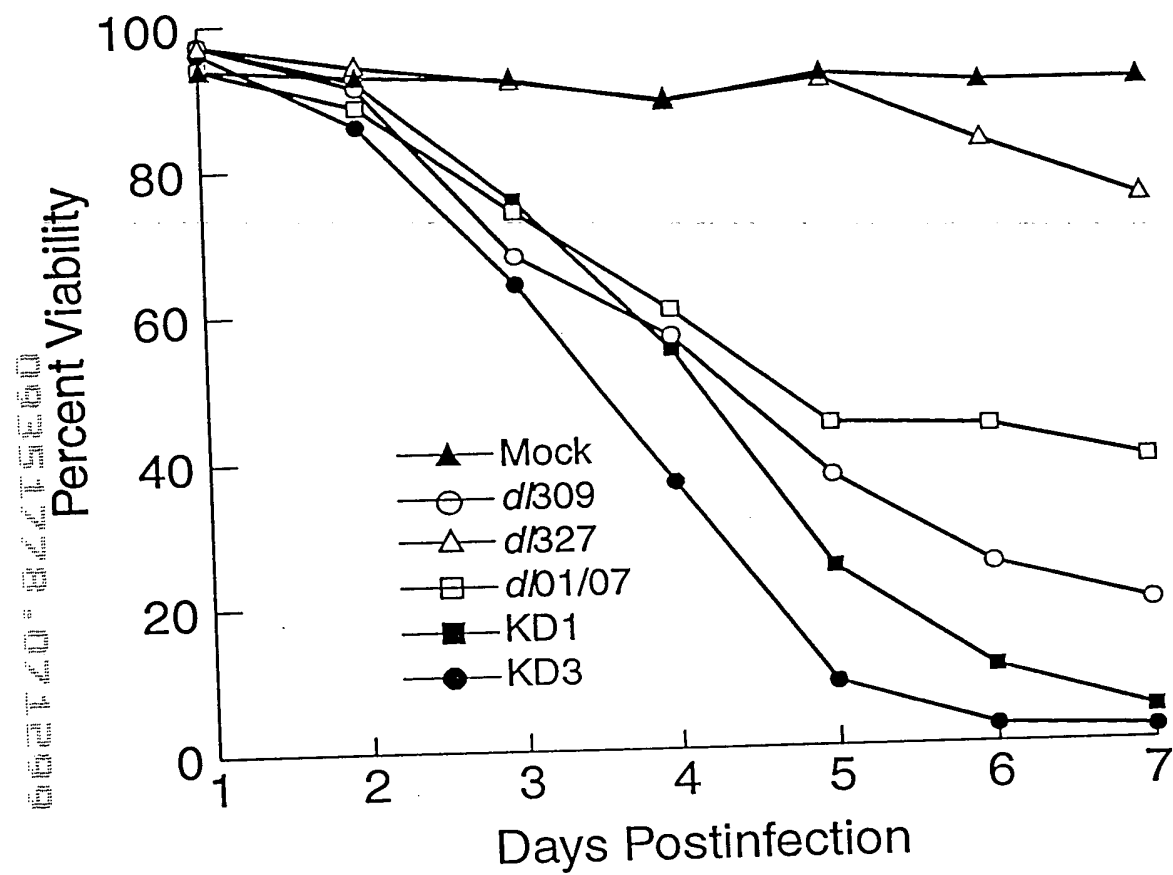


FIGURE 4

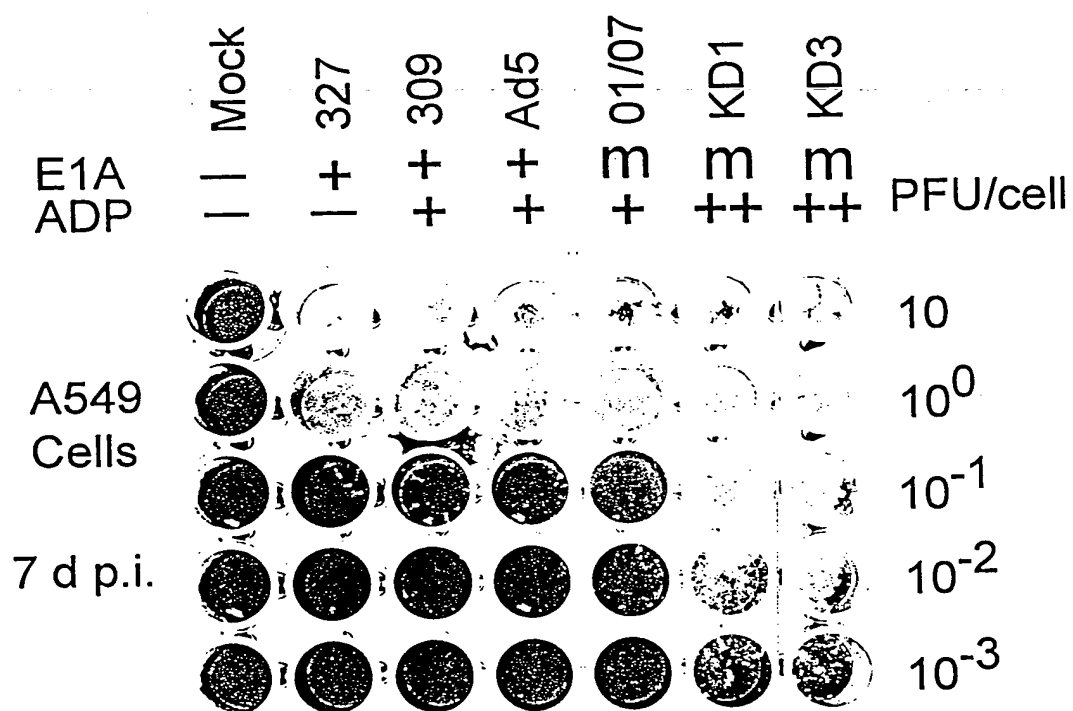


FIGURE 5

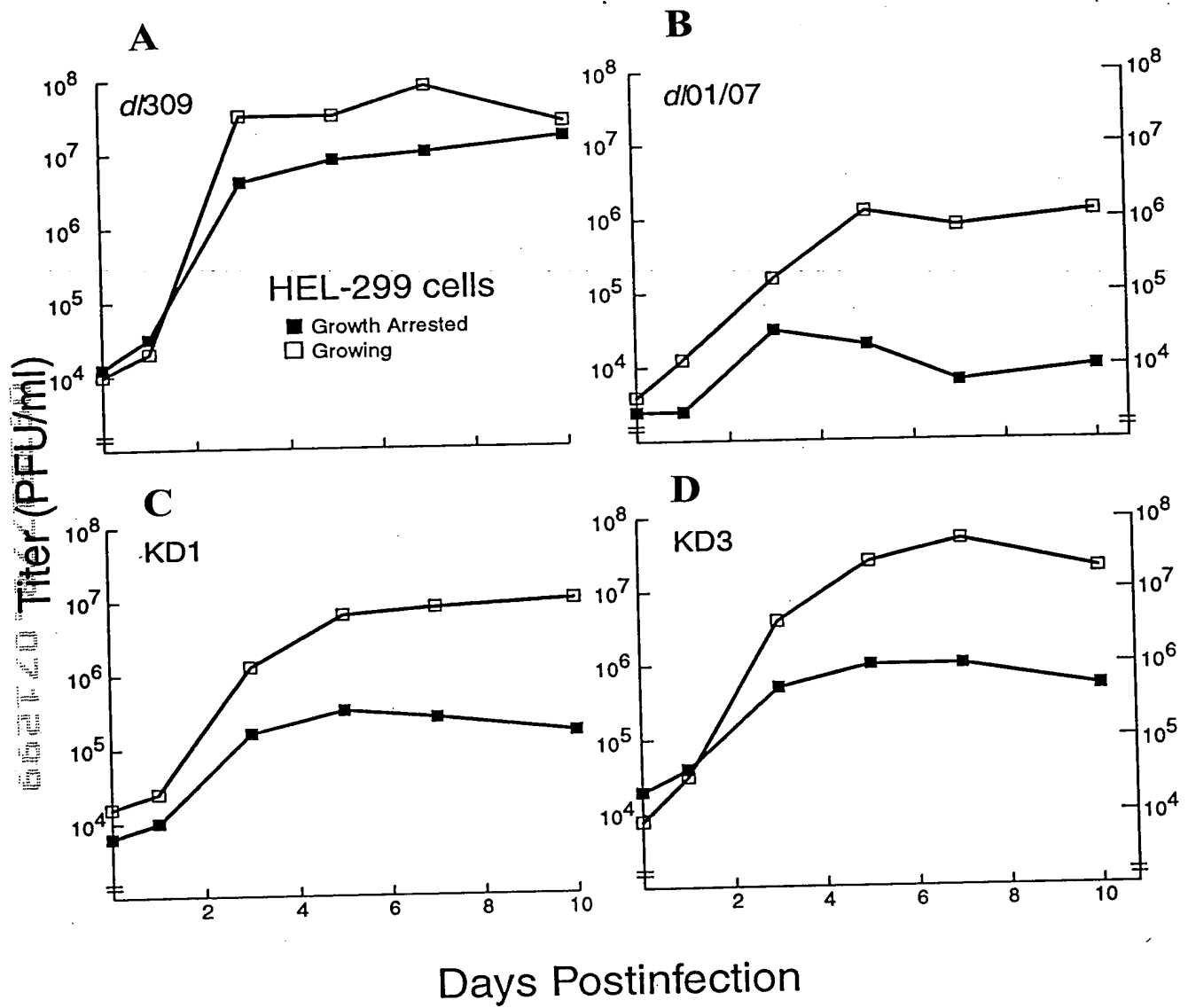
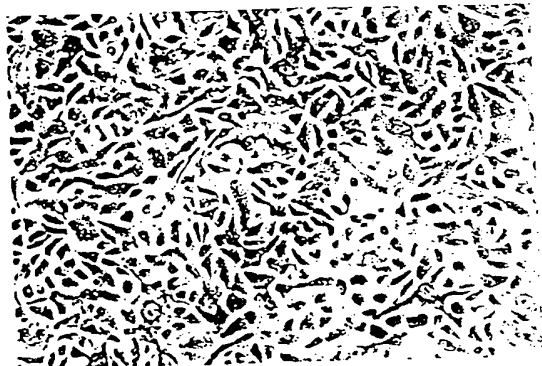
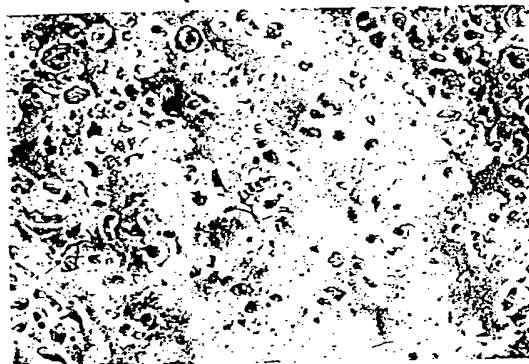


FIGURE 6

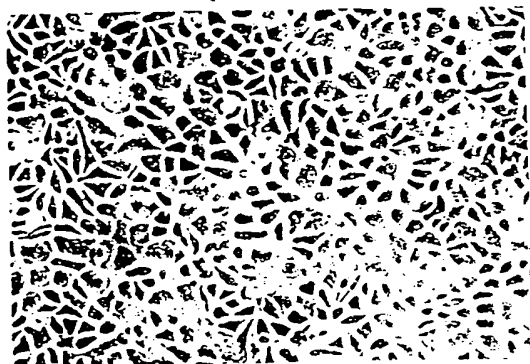
Mock



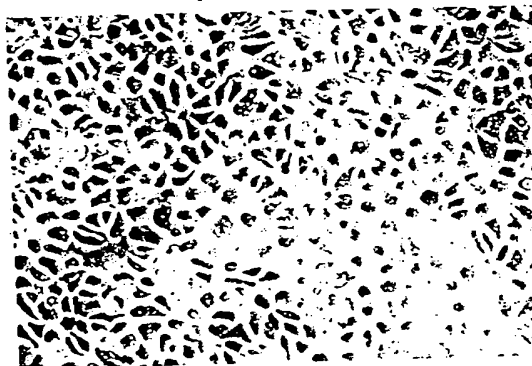
309 (E1A⁺, ADP⁺)



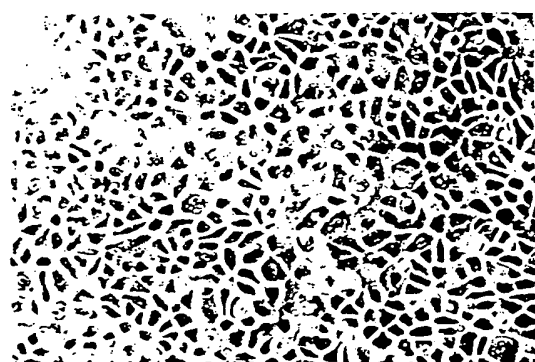
01/07 (E1A^m, ADP⁺)



KD1 (E1A^m, ADP⁺⁺)



KD3 (E1A^m, ADP⁺⁺)



327 (E1A⁺, ADP⁻)

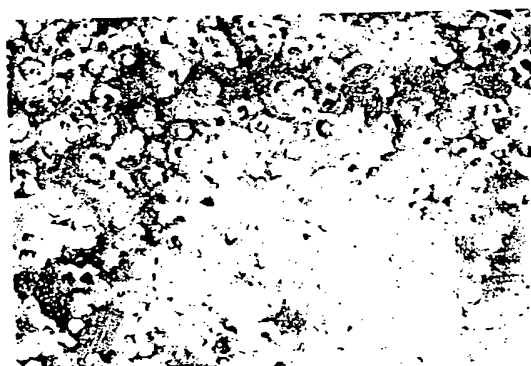


FIGURE 7

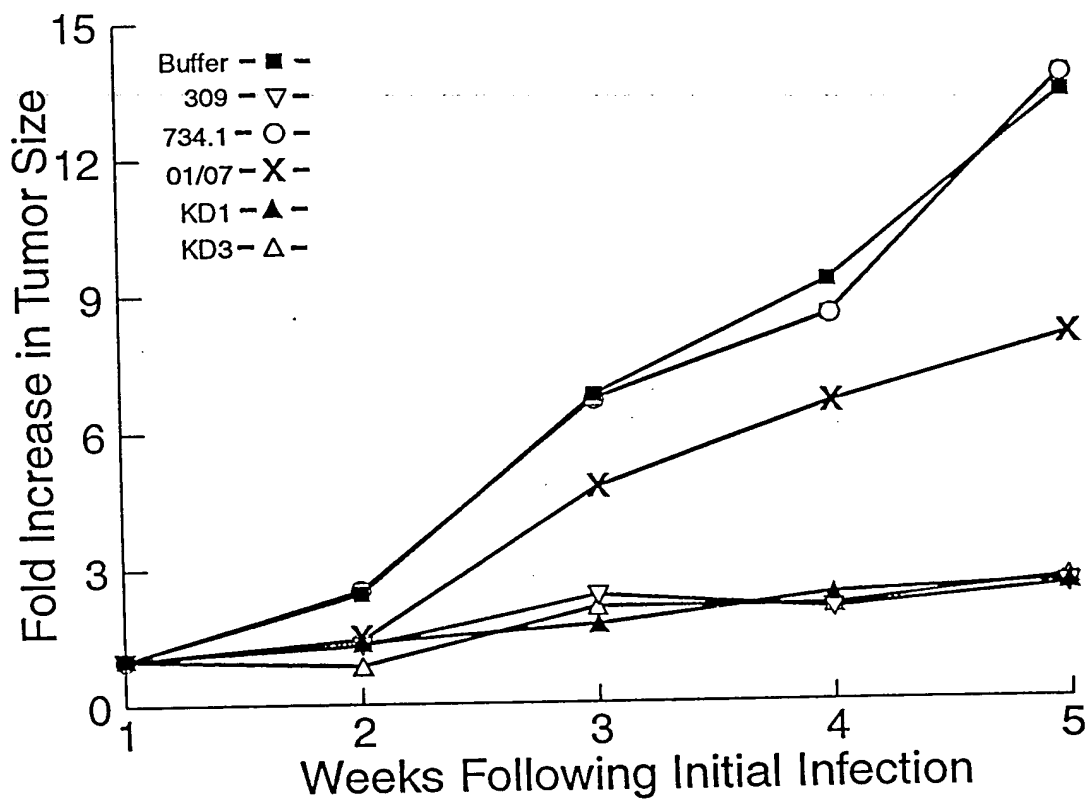


FIGURE 8A

**One Injection of KD3 or GZ3 Inhibits
Growth of A549 tumors
(5×10^8 PFU injected on day 0)**

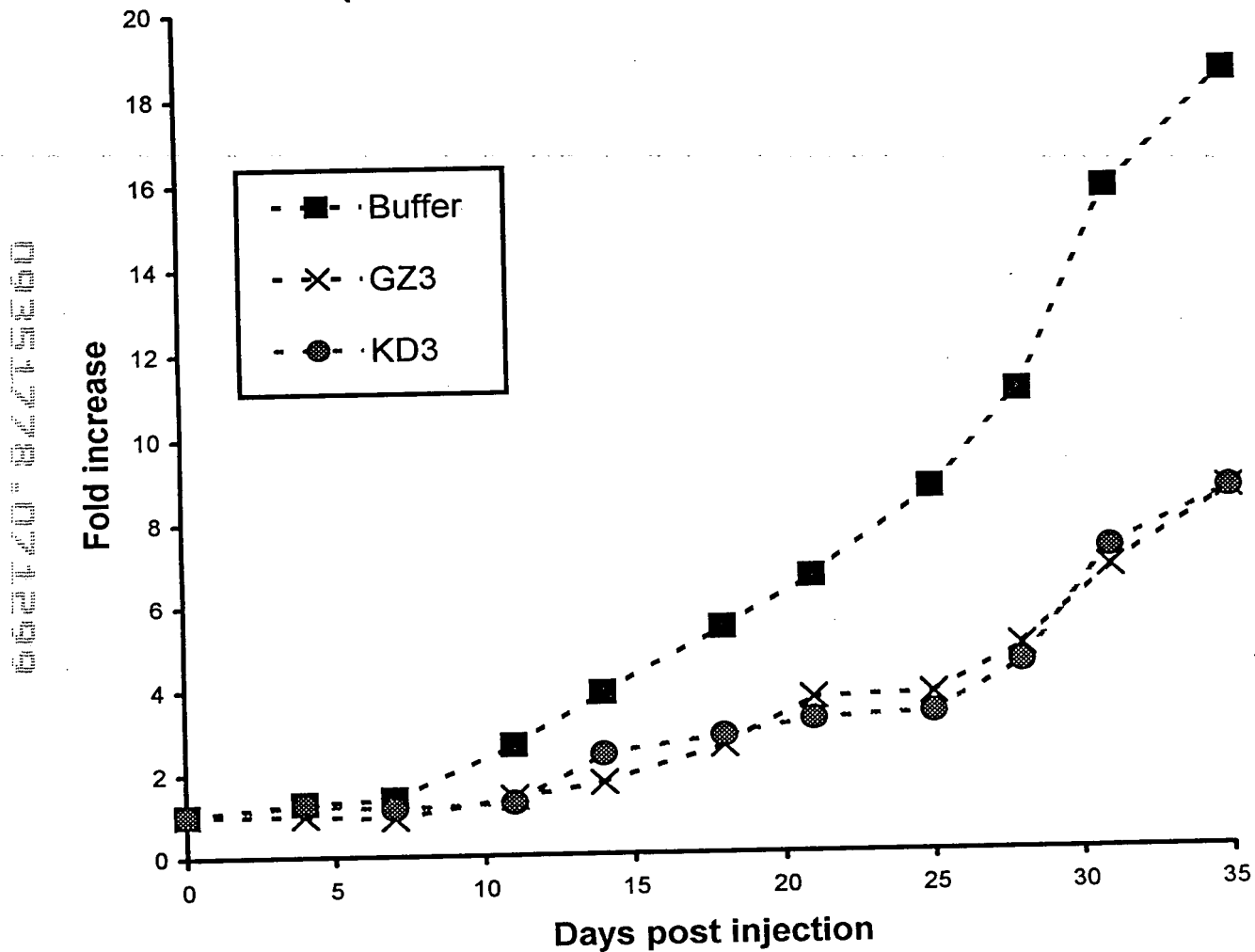


FIGURE 8B

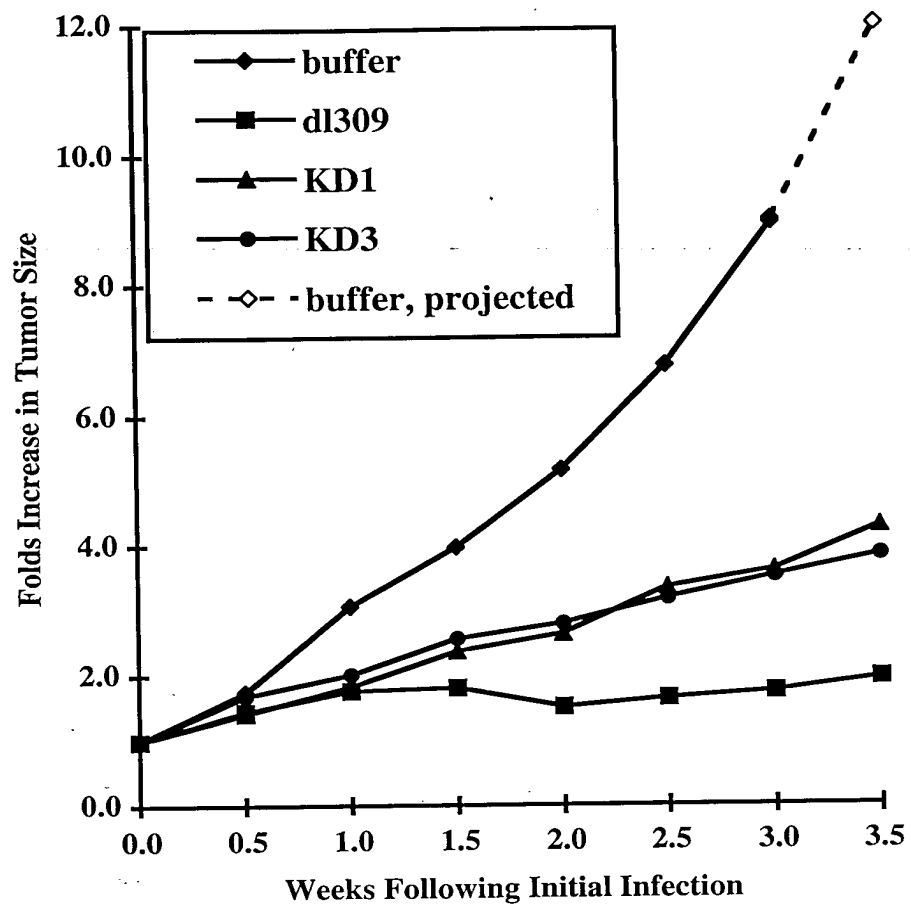


FIGURE 9

00361778-071209

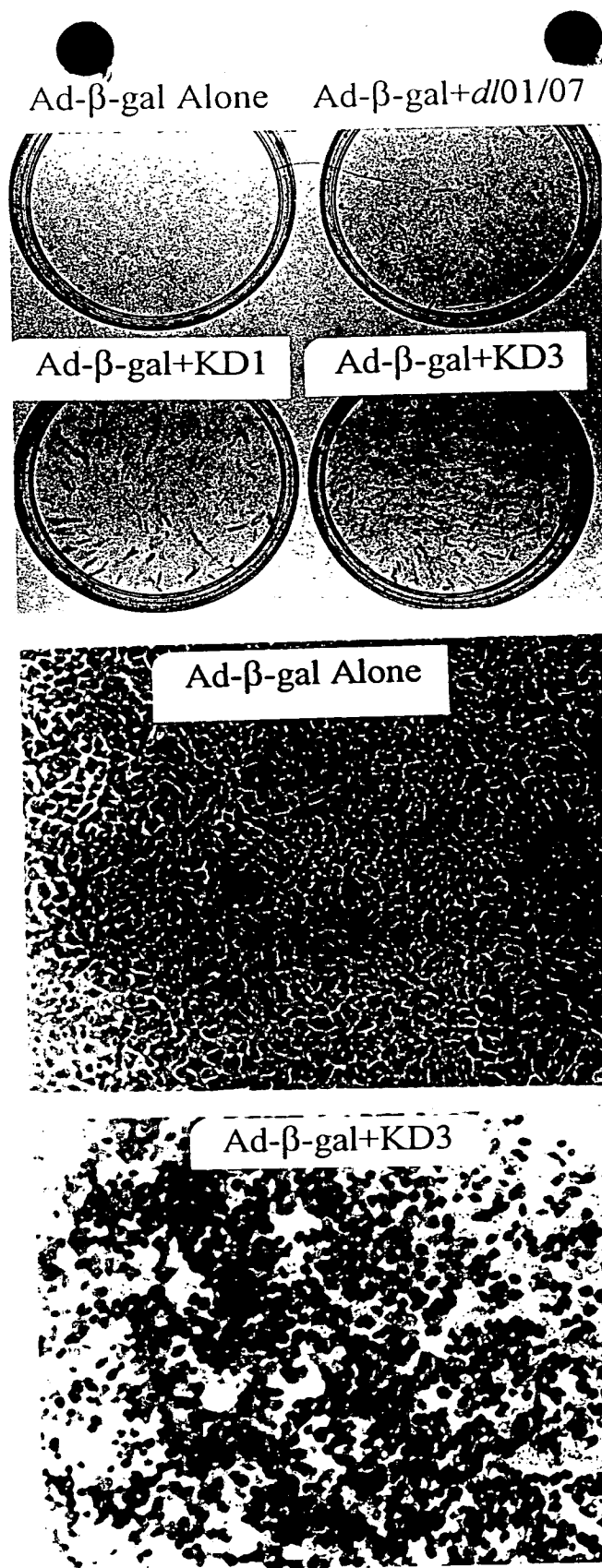


FIGURE 10

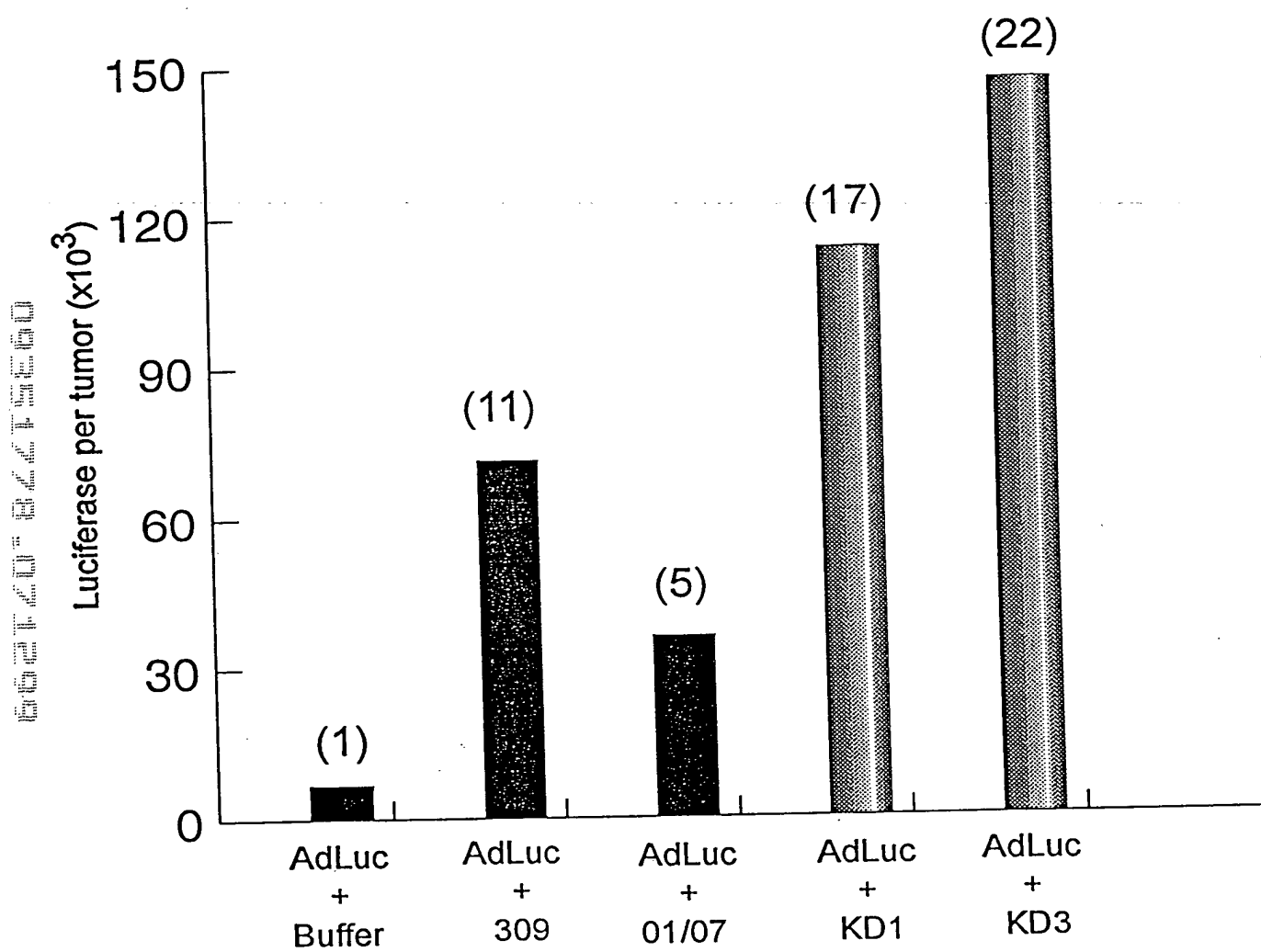


FIGURE 11

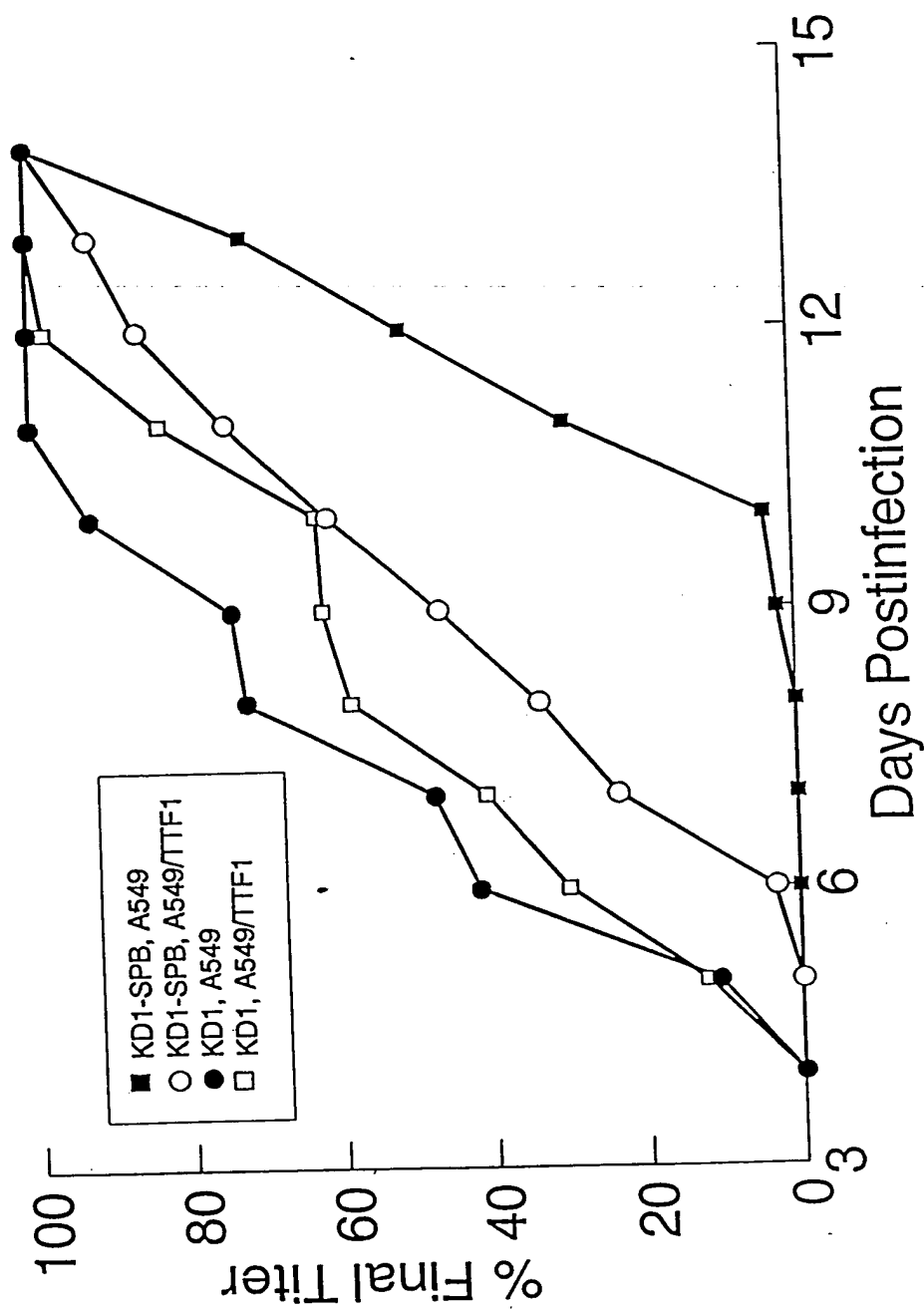


FIGURE 12

KD1-SPB With the SPB Promoter in Place of the E4 Promoter Grows on H44a Lung Cancer Cells with the TTF1 Transcription Factor

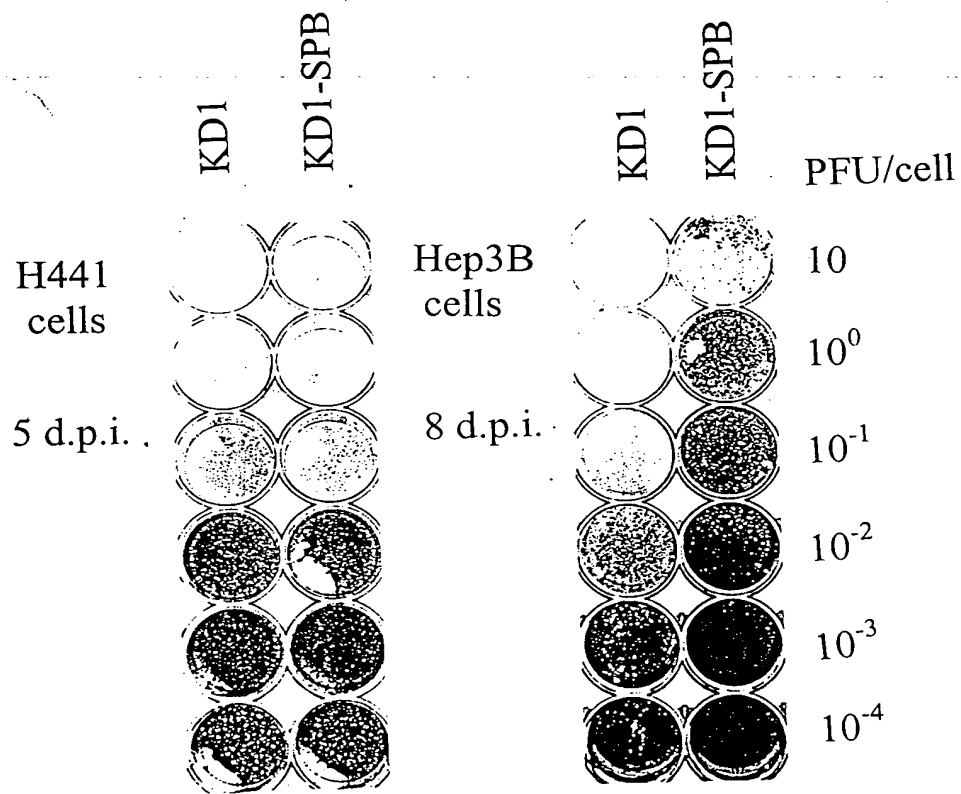


FIGURE 13

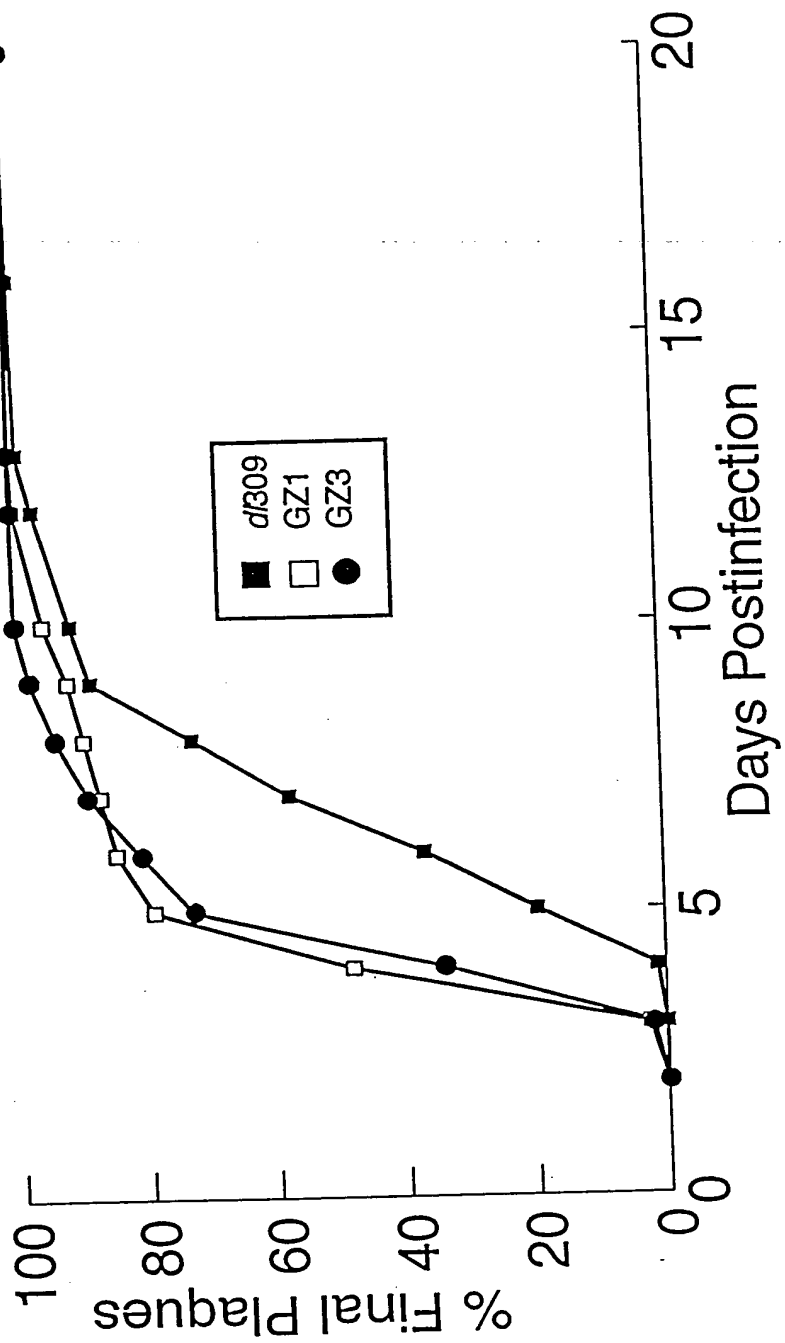


FIGURE 14

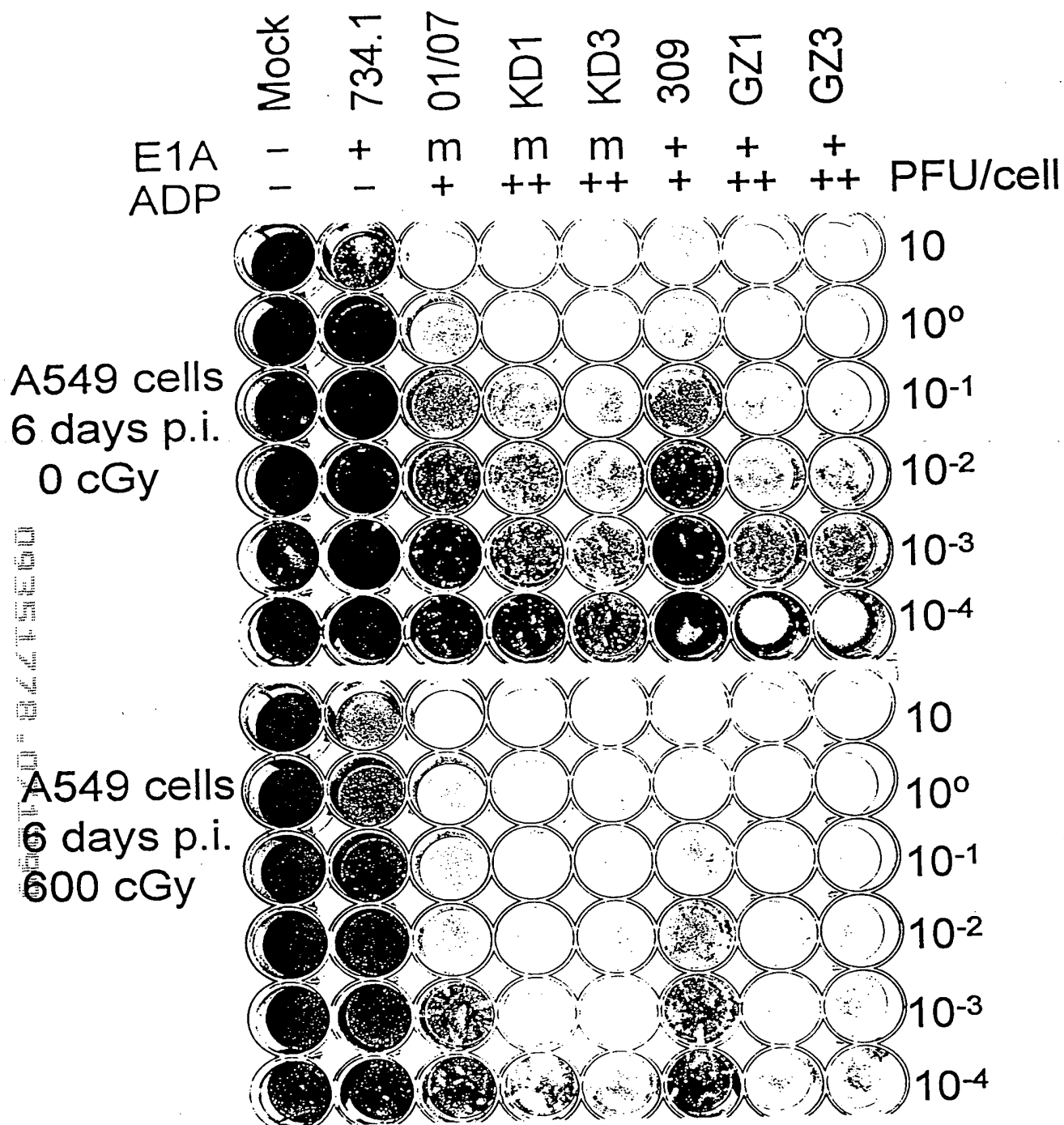


FIGURE 15

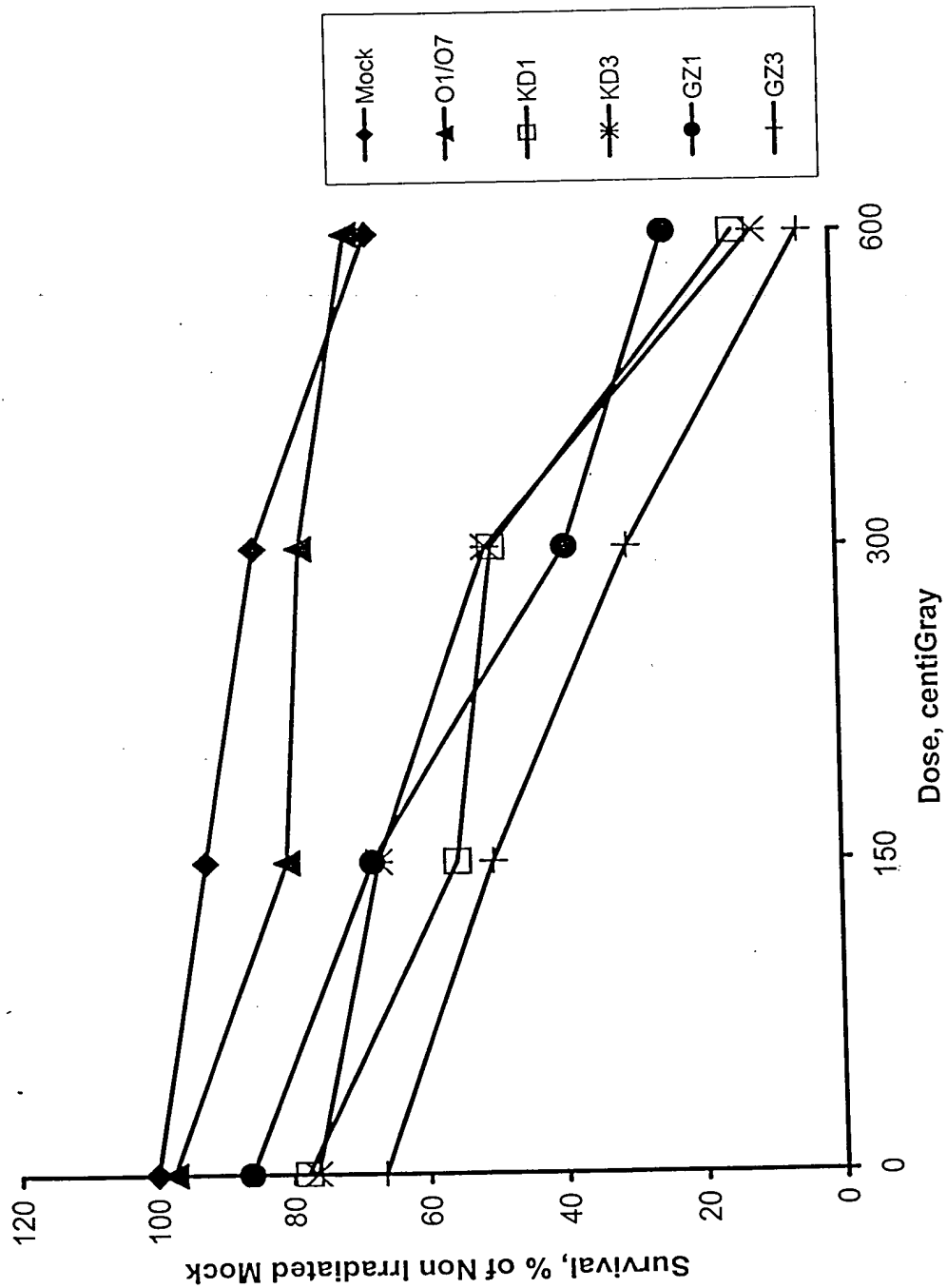


FIGURE 16

Ad2 Adenovirus Death Protein

Luminal Domain

MTGSTIAPTTDYRNTTATGLTSALNLPQVHAFVND 35

O - glycosylation *N - glycosylation*

WASLDMWWFSIALMFVCLIMWLIGCLKRRRRARPP 70

*Transmembrane
(Signal - Anchor)*

Basic - Proline

IYRPIIVLNPHNEKIHRLDGLKPCSLLLQYD 101

Cytoplasmic - Nucleoplasmic Domain

FIGURE 18A

09354778-071239

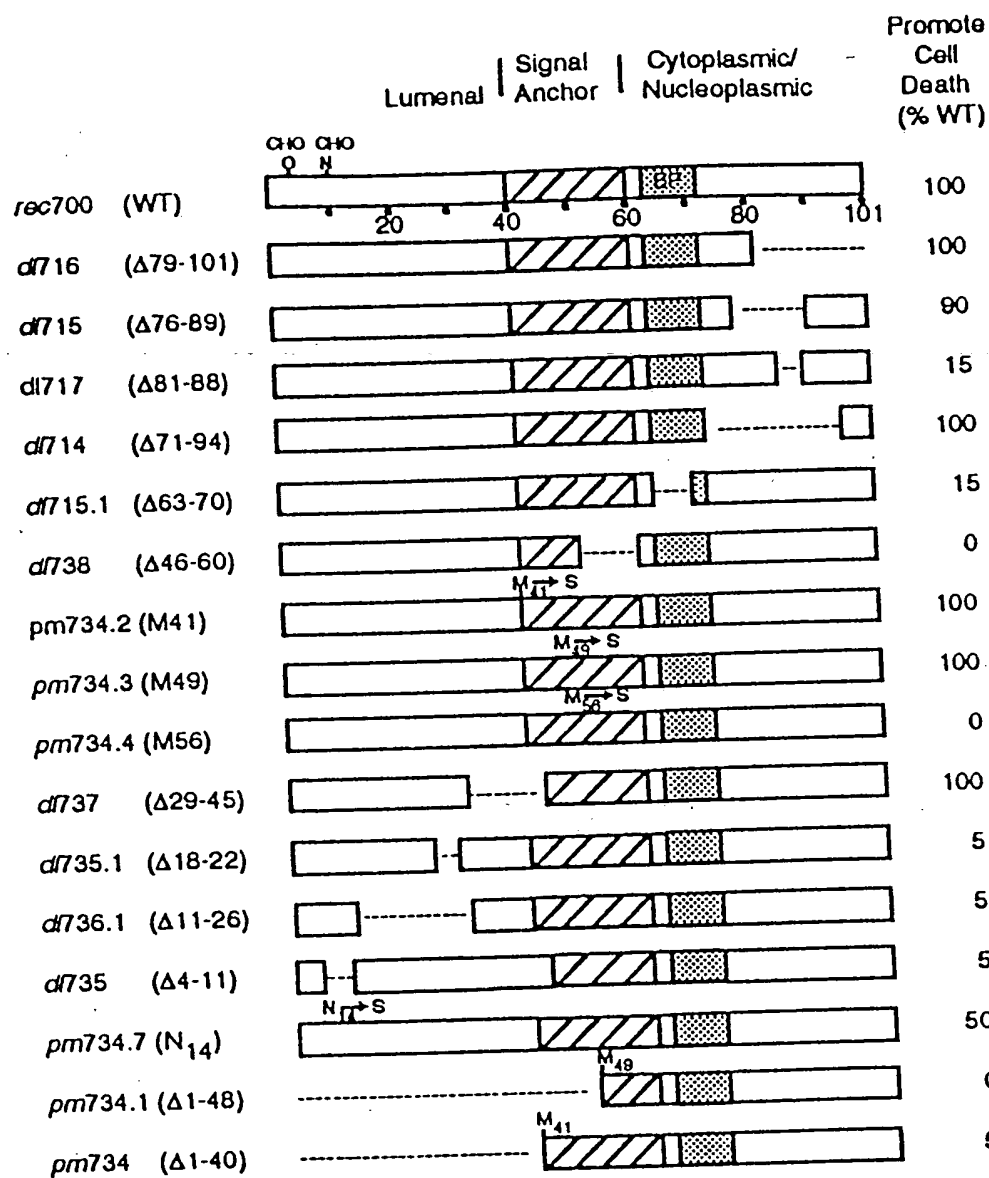


FIGURE 18B

662120" 84475660

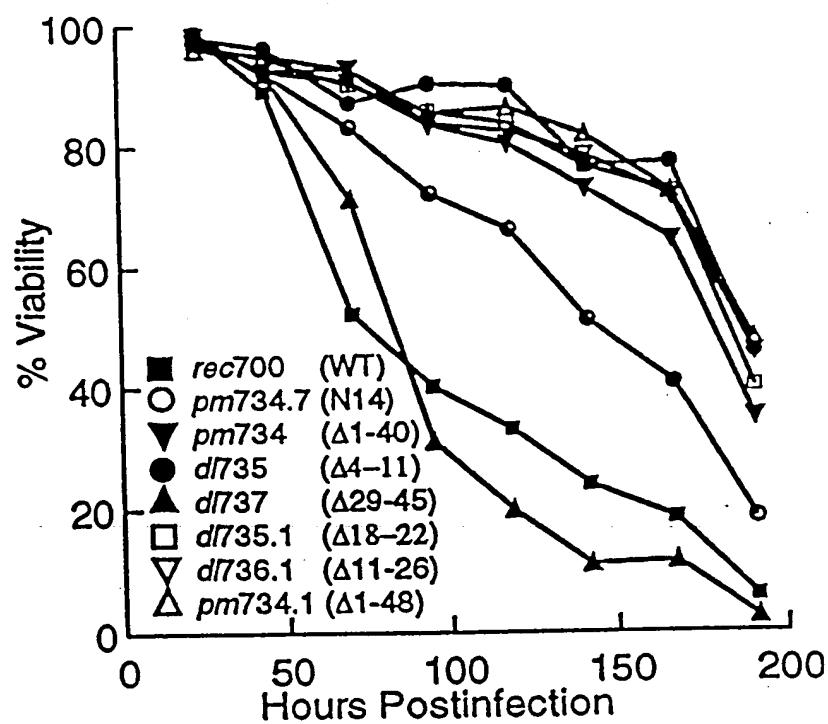


FIGURE 19A

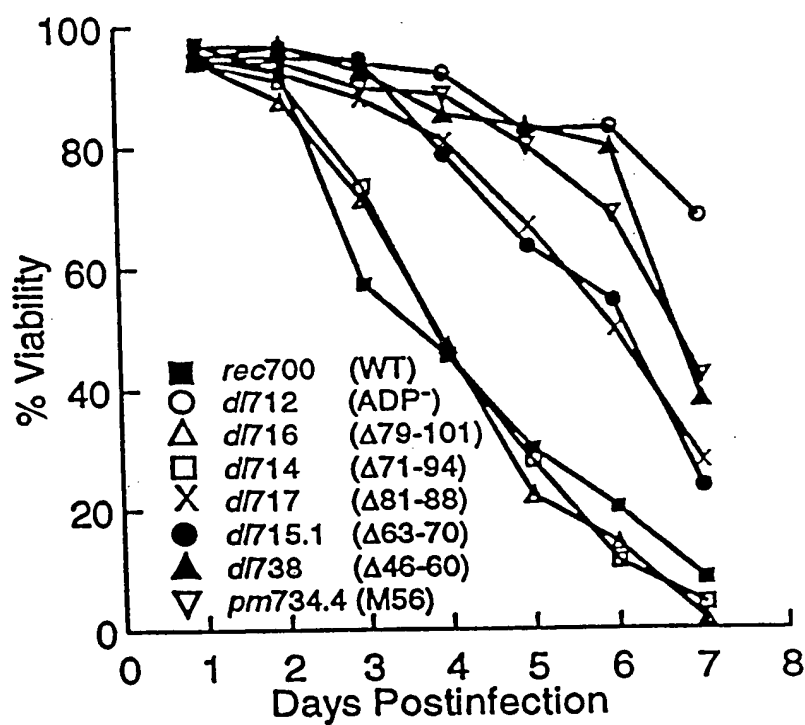


FIGURE 19B

Seq ID No.

		10	20	30	40	50
5	Ad1	-----MVDT	VNSYNTATGL	TSALNLPQVS	TFVNNWANLG	MWWFSIALMF
6	Ad2	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
7	Ad5	-----MTN	TTNAAAATGL	TSTTNTQVS	AFVNNWDNLG	MWWFSIALMF
8	Ad6	-----MVDT	VNSYNTATGL	KSALNLPQVH	AFVNDWASLG	MWWFSIALMF
9	dl716	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
10	dl715	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
11	dl714	MTGSTIAPTT	DYRNTTATGL	TSALNLPQVH	AFVNDWASLD	MWWFSIALMF
12	dl737	MTGSTIAPTT	DYRNTTATGL	TSALNLPQ--	-----	-----IALMF

		60	70	80	90	100
5	Ad1	VCLIIMWLSC	CLKRKRARPP	IYKPIIVLNP	NNDGIHRLDG	LNTCSFSFAV -
6	Ad2	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D
7	Ad5	VCLIIMWLIC	CLKRKRARPP	IYSPIIVLHP	NNDGIHRLDG	LKHMFFSLTV -
8	Ad6	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D
9	dl716	VCLIIMWLIC	CLKRRRARPP	IYRPIIVL--	-----	-----
10	dl715	VCLIIMWLIC	CLKRRRARPP	IYRPI-----	-----G	LKPCSLLLQY D
11	dl714	VCLIIMWLIC	CLKRRRARPP	-----	-----	-----SLLLQY D
12	dl737	VCLIIMWLIC	CLKRRRARPP	IYRPIIVLNP	HNEKIHRLDG	LKPCSLLLQY D

Seq. ID No.

17	aa 1-40 of Ad2 ADP	MTGSTIAPTT DYRNTTATGL TSALNLPQVH AFVNDWASLD
18	aa 41-59 of Ad2 ADP	MWWFSIALMF VCLIIMWLI
19	aa 63-70 of Ad2 ADP	KRRRARPP
20	aa 60-101 of Ad2 ADP	C CLKRRRARPP IYRPIIVLNP HNEKIHRLDG LKPCSLLLQY D

FIGURE 20

LOCUS ad5 comple 35935 bp DNA SYN 06-FEB-1999

DEFINITION ad5 complete genome

ACCESSION ad5 comple

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown

REFERENCE 1 (bases 1 to 35935)

AUTHORS Self

JOURNAL Unpublished.

BASE COUNT 8367 a 10073 c 9761 g 7734 t

ORIGIN

```

1 CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT
61 TTGTGACGTG GCGCGGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT
121 GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG
181 GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGCG GTTTTAGGCG GATGTTGTAG
241 TAAATTTGGG CGTAACCGAG TAAGATTGCG CCATTTTCGC GGGAAACTG AATAAGAGGA
301 AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTTGTCTA GGGCCGCGGG
361 GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGTTC
421 CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGCTGACG TGAGTGTAT TTATACCCGG
481 TGAGTTCCTC AAGAGGCCAC TCTTGAGTGC CAGCGAGTAG AGTTTTCTCC TCCGAGCCGC
541 TCCGACACCG GGAAGTAAAA TGAGACATAT TATCTGCCAC GGAGGTGTTA TTACCGAAGA
601 AATGGCCGCC AGTCTTTTGG ACCAGCTGAT CGAAGAGGTA CTGGCTGATA ATCTTCCACC
661 TCCTAGCCAT TTTGAACCAC CTACCCTTCA CGAAGTGTAT GATTTAGACG TGACGGCCCC
721 CGAAGATCCC AACGAGGAGG CGGTTTCGCA GATTTTCCCG GACTCTGTAA TGTGGCGGTT
781 GCAGGAAGGG ATTGACTTAC TCACTTTTCC GCGGCGCCCC GGTTCCTCCG AGCCGCCTCA
841 CCTTCCCGG CAGCCCGAGC AGCCGAGCA GAGAGCCTTG GGTCCGTTTT CTATGCCAAA
901 CCTTGTACCG GAGGTGATCG ATCTTACCTG CCACGAGGCT GGCTTTCCAC GGCACGGTTG
961 CGAGGATGAA GAGGGTGAGG AGTTTGTGTT AGATTATGTG GAGCACCCTG GTTCGCTTTG
1021 CAGGTCTTGT CATTATCACC GGAGGAATAC GGGGGACCCA GATATTATGT GTTCGCTTTG
1081 CTATATGAGG ACCTGTGGCA TGTTTGTCTA CAGTAAGTGA AAATTATGGG CAGTGGGTGA
1141 TAGAGTGGTG GGTTTGGTGT GGTAATTTTT TTTTAAAGGT TTTTAAATTT TTACAGTTTT GTGGTTTTAA
1201 GAATTTTGTA TTGTGATTTT TTTAAAAGGT CCTGTGTCTG AACCTGAGCC TGAGCCCGAG
1261 CCAGAACCGG AGCCTGCAAG ACCTACCCGC CGTCTTAAAA TGGCGCCTGC TATCCTGAGA
1321 CGCCCGACAT CACCTGCTGA GATACACCCG GTGGTCCCGC TGTGCCCAT TAAACAGTT
1381 CCTTCTAACA CACCTCCTGA GATACACCCG GTGGAATGTA TCGAGGACTT GCTTAACGAG
1441 GCCGTGAGAG TTGGTGGGCG TCGCCAGGCT GTGGAATGTA CATAAGGTGT AAACCTGTGA
1501 CCTGGGCAAC CTTTGGACTT GAGCTGTAAA CGCCCCAGGC ATGTAAGTTT AATAAAGGGT
1561 TTGCGTGTGT GGTAAACGCC TTTGTTTGCT GAATGAGTTG GGCTTAAAGG GTATATAATG
1621 GAGATAATGT TTAACCTGCA TGGCGTGTTA AATGGGCGCG GGCTTAAAGG GTATATAATG
1681 CGCCGTGGGC TAATCTTGGT TACATCTGAC CTCATGGAGG CTTGGGAGTG TTTGGAAGAT
1741 TTTTCTGCTG TCGGTAACCT GCTGGAACAG AGCTCTAACA GTACCTCTTG GTTTTGGAGG
1801 TTTCTGTGGG GCTCATCCCA GGCAAAGTTA GTCTGCAGAA TTAAGGAGGA TTACAAGTGG
1861 GAATTTGAAG AGCTTTTGAA ATCCTGTGGT GAGCTGTTTG ATTCTTTGAA TCTGGGTCAC
1921 CAGGCGCTTT TCCAAGAGAA GGTCAATCAAG ACTTTGGATT TTTCCACACC GGGGCGCGCT
1981 GCGGCTGCTG TTGCTTTTTT GAGTTTTATA AAGGATAAAT GGAGAGCGGT TGTGAGACAC
2041 AGCGGGGGGT ACCTGCTGGA TTTTCTGGCC ATGCATCTGT GGAGAGCGGT TGTGAGACAC
2101 AAGAATCGCC TGCTACTGTT GTCTTCCGTC CGCCCGGCGA TAATACCGAC GGAGGAGCAG
2161 CAGCAGCAGC AGGAGGAAGC CAGGCGGCGG CGGCAGGAGC AGAGCCCATG GAACCCGAGA
2221 GCCGGCCTGG ACCCTCGGGA ATGAATGTTG TACAGGTGGC TGAAGTGTAT CCAGAACTGA
2281 GACGCATTTT GACAATTACA GAGGATGGGC AGGGGCTAAA GGGGGTAAAG AGGGAGCGGG
2341 GGGCTTGTGA GGCTACAGAG GAGGCTAGGA ATCTAGCTTT TAGCTTAATG ACCAGACACC
2401 GTCCTGAGTG TATTACTTTT CAACAGATCA AGGATAATTG CGCTAATGAG CTTGATCTGC
2461 TGGCGCAGAA GTATTCCATA GAGCAGCTGA CCACTTACTG GCTGCAGCCA GGGGATGATT
2521 TTGAGGAGGC TATTAGGGTA TATGCAAAGG TGGCACTTAG GCCAGATTGC AAGTACAAGA
2581 TCAGCAAAC TGTAAATATC AGGAATTGTT GCTACATTTT TGGGAACGGG GCGGAGGTGG
2641 AGATAGATAC GGAGGATAGG GTGGCCTTTA GATGTAGCAT GATAAATATG TGGCCGGGGG

```

FIGURE 21
(SHEET 1)

ad5

2701 TGCTTGGCAT GGACGGGGTG GTTATTATGA ATGTAAGGTT TACTGGCCCC AATTTTAGCG
2761 GTACGGTTT CCTGGCCAAT ACCAACCTTA TCCTACACGG TGTAAGCTTC TATGGGTTTA
2821 ACAATACCTG TGTGGAAGCC TGGACCGATG TAAGGGTTTC GGGCTGTGCC TTTTACTGCT
2881 GCTGGAAGGG GGTGGTGTGT CGCCCCAAAA GCAGGGCTTC AATTAAGAAA TGCCTCTTTG
2941 AAAGGTGTAC CTGGGTATC CTGTCTGAGG GTAACCTCAG GGTGCGCCAC AATGTGGCCT
3001 CCGACTGTGG TTGCTTCATG CTAGTGAAAA GCGTGGCTGT GATTAAGCAT AACATGGTAT
3061 GTGGCAACTG CGAGGACAGG GCCTCTCAGA TGCTGACCTG CTCGGACGGC AACTGTCACC
3121 TGCTGAAGAC CATTACGTA GCCAGCCACT CTCGCAAGGC CTGGCCAGTG TTTGAGCATA
3181 ACATACTGAC CCGCTGTTCC TTGCATTTGG GTAACAGGAG GGGGGTGTTC CTACCTTACC
3241 AATGCAATTT GAGTCACACT AAGATATTGC TTGAGCCCGA GAGCATGTCC AAGGTGAACC
3301 TGAACGGGGT GTTTGACATG ACCATGAAGA TCTGGAAGGT GCTGAGGTAC GATGAGACCC
3361 GCACCAGGTG CAGACCCTGC GAGTGTGGCG GTAAACATAT TAGGAACCAG CCTGTGATGC
3421 TGGATGTGAC CGAGGAGCTG AGGCCCGATC ACTTGGTGCT GGCCTGCACC CGCCTGAGT
3481 TTGGCTCTAG CGATGAAGAT ACAGATTGAG GTACTGAAAT GTGTGGGCGT GGCTTAAGGG
3541 TGGGAAAGAA TATATAAGGT GGGGGTCTTA TGTAAGTTTGT TATCTGTTTT GCAGCAGCCG
3601 CCGCCGCCAT GAGCACC AAC TCGTTTGATG GAAGCATTGT GAGCTCATAT TTGACAACGC
3661 GCATGCCCC ATGGGCCGGG GTGCGTCAGA ATGTGATGGG CTCCAGCATT GATGGTCGCC
3721 CCGTCTCGCC CGCAAACTCT ACTACCTTGA CCTACGAGAC CGTGTCTGGA ACGCCGTTGG
3781 AGACTGCAGC CTCCGCCGCC GCTTCAGCCG CTGCAGCCAC CGCCCCGCGG ATTGTGACTG
3841 ACTTTGCTTT GGCTCTTTTG GCACAATTGG ATTCTTTGAC CCGGGAACCT AATGTCGTTT
3901 ACAAGTTGAC GGTCTTTTTC CGCCAGCAGG TTTCTGCCCT GAAGGCTTCC TCCCCTCCCA
3961 CTCAGCAGCT GTTGGATCTG CGCCAGCAGG ACTCTGTTTG GATTTGGATC AAGCAAGTGT
4021 ATGCGGTTTA AAACATAAAT AAAAAACCAG CGCGGTAGGC CCGGGACCAG CGGTCTCGGT
4081 CTTGCTGTCT TTATTTAGGG GTTTTGCAGG CGTGGTAAAG GTGACTCTGG ATGTTAGAT
4141 CGTTGAGGGT CCTGTGTATT TTTTCCAGGA GGTAGCACCA CTGCAGAGCT TCATGCTGCG
4201 ACATGGGCAT AAGCCCGTCT CTGGGGTGGA AGGAGCGCTG GCGTGGTGC CTAAAAATGT
4261 GGGTGGTGT GTAGATGATC CAGTCGTAGC AGGAGCGCTG GCGTGGTGC CTAAAAATGT
4321 CTTTCAGTAG CAAGCTGATT GCCAGGGGCA GGCCCTTGGT GTAAGTGTTC ACAAAGCGGT
4381 TAAGCTGGGA TGGGTGCATA CGTGGGGATA TGAGATGCAT CTTGGACTGT ATTTTLAGGT
4441 TGGCTATGTT CCCAGCCATA TCCCTCCGGG GATTATGTT GTGCGAACC ACCAGCACAG
4501 TGTATCCGGT GCACTTGGGA AATTTGTCAT GTAGCTTAGA AGGAAATGCG TGGAAGAACT
4561 TGGAGACGCC CTTGTGACCT CCAAGATTTT TTCTGGGATC ACTAACGTC TAGTTGTGTT
4621 GCCCACGGGC GCGCGCCTGG GCGAAGATAT CAAAGCGCGG GCGGAGGGTG CCAGACTGCG
4681 CCAGGATGAG ATCGTCATAG GCCATTTTTA CAAAGCGCGG ACAGATTTGC ATTTCCACG
4741 GTATAATGGT TCCATCCGGC CCAGGGGCGT AGTTACCCTC ACAGATTTGC ATTTCCACG
4801 CTTTGAGTTC AGATGGGGG ATCATGTCTA CCTGCGGGG GATGAAGAAA ACGTTTCCG
4861 GGGTAGGGGA GATCAGCTGG GAAGAAAGCA GGTTCCTGAG CAGCTGCGAC TTACCGCAGC
4921 CCGTGGGCCC GTAAATCACA CCTATTACCG GGTGCAACTG GTAGTTAAGA GAGCTGCAGC
4981 TGCCGTCATC CCTGAGCAGG GGGGCCACTT CGTTAAGCAT GTCCCTGACT CGCATGTTTT
5041 CCCTGACCAA ATCCGCCAGA AGGCGCTCGC CGCCAGCGA TAGCAGTTCT TGCAAGGAAG
5101 CAAAGTTTTT CAACGGTTTG AGACCGTCCG CCGTAGGCAT GCTTTTGAGC GTTTGACCAA
5161 GCAGTTCCAG GCGGTCCAC AGCTCGGTCA CCTGCTCTAC GGCATCTCGA TCCAGCATAT
5221 CTCCTCGTTT CGCGGGTTGG GCGGCTTTT GCTGTACGGC AGTAGTCGGT GCTCGTCCAG
5281 ACGGGCCAGG GTCATGTCTT TCCACGGGCG CAGGGTCTC GTCAGCGTAG TCTGGGTCAC
5341 GGTGAAGGGG TGCGCTCCGG GCTGCGCGCT GGCCAGGGTG CGCTGCGGC AGGTAGCATT TGACCATGGT
5401 GGTGCTGAAG CGCTGCCGGT CTTCCGCCCTG CCGTGGCGCG AGCTTGCCCT TGGAGGAGGC
5461 GTCATAGTCC AGCCCTCCG CGGCGTGGCC CTTGGCGAGC GGCCTAGAGC TTGGGCGCGA GAAATACCGA
5521 GCCGCACGAG GGGCAGTGCA GACTTTTGAG GGCCTAGAGC GTCTCGCATT CCACGAGCCA
5581 TTCCGGGGAG TAGGCATCCG GGTCAAAAAC CAGGTTTCCC CCATGCTTTT TGATGCGTTT
5641 GGTGAGCTCT GGCCGTTCGG GCTCAAAAAC CAGGTTTCCC CCATGCTTTT TGATGCGTTT
5701 CTTACCTCTG GTTCCATGA GCCGGTGTCC ACGCTCGGTG ACGAAAAGGC TGTCCGTGTC
5761 CCCGTATACA GACTTGAGAG GCCTGTCTC GAGCGGTGTT CCGCGGCTCT CCTCGTATAG
5821 AAACCTCGAC CACTCTGAGA CAAAGGCTCG CGTCCAGGCC AGCACGAAGG AGGCTAAGTG
5881 GGAGGGGTAG CGGTCTGTTT CCACTAGGGG GTCCACTCGC TCCAGGGTGT GAAGACACAT
5941 GTCGCCCTCT TCGGCATCAA GGAAGGTGAT TGTTTGTAG GTGTAGGCCA CGTGACCGGG
6001 TGTTCCTGAA GGGGGGCTAT AAAAGGGGGT GGGGGCGCGT TCGTCTCCAC TCTCTCCCG
6061 ATCGCTGTCT GCGAGGGCCA GCTGTTGGGG TGAGTACTCC CTCTGAAAAG CCGGCATGAC

FIGURE 21
(SHEET 2)

6121	TTCTGCGCTA	AGATTGTCAG	TTTCCAAAA	CGAGGAGGAT	TTGATATTCA	CCTGGCCCCG
6181	GGTGATGCCT	TTGAGGGTGG	CCGCATCCAT	CTGGTCAGAA	AAGACAATCT	TTTTGTTGTC
6241	AAGCTTGGTG	GCAAACGACC	CGTAGAGGGG	GTTGGACAGC	AACTTGGCGA	TGGAGCGCAG
6301	GGTTTGGTTT	TTGTGCGGAT	CGGCGCGCTC	CTTGGCCGCG	ATGTTTAGCT	GCACGTATTG
6361	GCGCGCAACG	CACCGCCATT	CGGGAAGAGC	GGTGGTGCGC	TCGTGCGGCA	CCAGGTGCAC
6421	GCGCCAACCG	CGGTTGTGCA	GGGTGACAAG	GTCAACGCTG	GTGGCTACCT	CTCCGCGTAG
6481	GCGCTCGTTG	GTCCAGCAGA	GGCGGCCGCC	CTTGCGCGAG	CAGAATGGCG	GTAGGGGGTC
6541	TAGCTAGCTC	TCTGTCGGGG	GGTCTGCGTC	CACGGTAAAG	ACCCCGGGCA	GCAGGCGCGC
6601	GTCGAAGTAG	TCTATCTTGC	ATCCTTGCAA	GTCTAGCGCC	TGCTGCCATG	CGCGGGCGGC
6661	AAGCGCGCGC	TCGTATGGGT	TGAGTGGGGG	ACCCCATGGC	ATGGGGTGGG	TGAGCGCGGA
6721	GGCGTACATG	CCGCAAATGT	CGTAAACGTA	GAGGGGCTCT	CTGAGTATTC	CAAGATATGT
6781	AGGGTAGCAT	CTTCCACCGC	GGATGCTGGC	GCGCACGTAA	TCGTATAGTT	CGTGCGAGGG
6841	AGCGAGGAGG	TCGGGACCGA	GGTTGCTACG	GGCGGGCTGC	TCTGCTCGGA	AGACTATCTG
6901	CCTGAAGATG	GCATGTGAGT	TGGATGATAT	GGTTGGACGC	TGGAAGACGT	TGAAGCTGGC
6961	GTCTGTGAGA	CCTACCGCGT	CACGCACGAA	GGAGGCGTAG	GAGTCGCGCA	GCTTGTGTAC
7021	CAGCTCGGCG	GTGACCTGCA	CGTCTAGGGC	GCAGTAGTCC	AGGGTTTCCT	TGATGATGTC
7081	ATACTTATCC	TGTCCCTTTT	TTTCCACAG	CTCGCGGTTG	AGGACAAACT	CTTCGCGGTC
7141	TTTCCAGTAC	TCTTGGATCG	GAAACCCGTC	GGCCTCCGAA	CGGTAAGAGC	CTAGCATGTA
7201	GAAGTGGTTG	ACGGCCTGGT	AGGCGCAGCA	TCCCTTTTCT	ACGGGTAGCG	CGTATGCCTG
7261	CGCGGCCTTC	CGGAGCGAGG	TGTGGGTGAG	CGCAAAGGTG	TCCCTGACCA	TGACTTTGAG
7321	GTAAGTGGTAT	TTGAAGTCAG	TGTCGTGCGA	TCCGCCCTGC	TCCCAGAGCA	AAAAGTCCGT
7381	GCGCTTTTTG	GAACGCGGAT	TGGCAGGGC	GAAGGTGACA	TCGTTGAAGA	GTATCTTTCC
7441	CGCGCGAGGC	ATAAAGTTGC	GTGTGATGCG	GAAGGGTCCC	GGCACCTCGG	AACGGTTGTT
7501	AATTACTTGG	CGCGCGAGCA	CGATCTCGTC	AAAGCCGTTG	ATGTTGTGGC	CCACAATGTA
7561	AAGTTCCAAAG	AAGCGCGGGA	TGCCCTTGAT	GGAAGGCAAT	TTTPTAAGTT	CCTCGTAGGT
7621	GAGCTCTTCA	GGGGAGCTGA	GCCCGTGCTC	TGAAAGGGCC	CAGTCTGCAA	GATGAGGGTT
7681	GGAAGCGACG	AATGAGCTCC	ACAGGTCACG	GGCCATTAGC	ATTTGCAGGT	GGTCGCGAAA
7741	GGTCCTAAAC	TGGCGACCTA	TGGCCATTTC	TTCTGGGGTG	ATGCAGTAGA	AGGTAAGCGG
7801	GTCTTGTTC	CAGCGGTCCC	ATCCAAGGTT	CGCGGCTAGG	TCTCGCGCGG	CAGTCACTAG
7861	AGGCTCATCT	CCGCCGAAC	TCATGACCAG	CATGAAGGGC	ACGAGCTGCT	TCCCAAAGGC
7921	CCCCATCCAA	GTATAGGTCT	CTACATCGTA	GGTGACAAAG	AGACGCTCGG	TGCGAGGATG
7981	CGAGCCGATC	GGGAAGAACT	GGATCTCCCG	CCACCAATTG	GAGGAGTGGC	TATTGATGTG
8041	GTGAAAGTAG	AAGTCCCTGC	GACGGGCCGA	ACACTCGTGC	TGGCTTTTGT	AAAAACGTGC
8101	GCAGTACTGG	CAGCGGTGCA	CGGGCTGTAC	ATCTGACACG	AGGTTGACCT	GACGACCGCG
8161	CACAAGGAAG	CAGAGTGGGA	ATTTGAGCCC	CTCGCTGGC	GGGTTTGGCT	GGTGGTCTTC
8221	TACTTCGGCT	GCTTGTCTCT	GACCGTCTGG	CTGCTCGAGG	GGAGTTACGG	TGGATCGGAC
8281	CACCACGCCG	CGCGAGCCCA	AAGTCCAGAT	GTCCGCGCGC	GGCGGTCCGA	GCTTGATGAC
8341	AACATCGCGC	AGATGGGAGC	TGTCCATGGT	CTGGAGCTCC	CGCGGCGTCA	GGTCAGCGCG
8401	GAGCTCTCTG	AGGTTTACCT	CGCATAGACG	GGTCAGGGCG	CGGGCTAGAT	CCAGGTGATA
8461	CCTAATTTCC	AGGGGCTGGT	TGGTGGCGGC	GTGATGGCT	TGCAAGAGGC	CGCATCCCCG
8521	CGGCGCGACT	ACGGTACCGC	GCGGCGGGCG	GTGGGCCGCG	GGGGTGTCTT	TGGATGATGC
8581	ATCTAAAAGC	GGTGACGCGG	GCGAGCCCCC	GGAGGTAGGG	GGGGCTCCGG	ACCCGCCGGG
8641	AGAGGGGGCA	GGGGCACGTC	GGCGCCGCGC	GCGGGCAGGA	GCTGGTGCTG	CGCGCGTAGG
8701	TTGCTGGCGA	ACGCGACGAC	GCGGCGGTTG	ATCTCCTGAA	TCTGGCGCCT	CTGCGTGAAG
8761	ACGACGGGCG	CGGTGAGCTT	GAGCCTGAAA	GAGAGTTCGA	CAGAATCAAT	TTCGGTGTGC
8821	TTGACGGCGG	CTTGGCGCAA	AATCTCCTGC	ACGTCTCCTG	AGTTGTCTTG	ATAGGCGATC
8881	TCGGCCATGA	ACTGCTCGAT	CTCTTCTCTC	TGGAGATCTC	CGCGTCCGGC	TCGCTCCACG
8941	GTGGCGGCGA	GGTCGTTGGA	AATGCGGGCC	ATGAGTTCGG	AGAAGGCGTT	GAGGCCTCCC
9001	TCGTTCCAGA	CGCGGCTGTA	GACCAAGCCC	CATTCCGCAT	CGCGGGCGCG	CATGACCACC
9061	TGCGCGAGAT	TGAGCTCCAC	GTGCCGGGCG	AAGCAGCGCT	AGTTTCGCAG	GCGCTGAAAG
9121	AGGTAGTTGA	GGGTGGTGCG	GGTGTGTTCT	GCCACGAAGA	AGTACATAAC	CCAGCGTCCG
9181	AACGTGGATT	CGTTGATATC	CCCCAAGGCC	TCAAGGCGCT	CCATGGCCTC	GTAGAAGTCC
9241	ACGGCGAAGT	TGAAAAACTG	GGAGTTGCGC	GCCGACACGG	TTAACTCCTC	CTCCAGAGA
9301	CGGTAGAGCT	CGGCGACAGT	GTCGCGCACC	TCGCGCTCAA	AGGCTACAGG	GGCCTCTTCT
9361	TCTTCTTCAA	TCTCTCTTTC	CATAAGGG			

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9541 AGTTGGAAGA CGCCGCCCGT CATGTCCCGG TTATGGGTTG GCGGGGGGCT GCCATGCGGC
9601 AGGGATACGG CGCTAACGAT GCATCTCAAC AATTGTTGTG TAGGTACTCC GCCGCCGAGG
9661 GACCTGAGCG AGTCCGCATC GACCGGATCG GAAAACCTCT CGAGAAAGGC GTCTAACCAG
9721 TCACAGTCGC AAGGTAGGCT GAGCACCGTG GCGGGCGGCA GCGGGCGGCG GTCCGGGTTG
9781 TTTCTGGCGG AGGTGCTGCT GATGATGTAA TTAAAGTAGG CGGTCTTGAG ACGGCGGATG
9841 GTCGACAGAA GCACCATGTC CTTGGGTCCG GCCTGCTGAA TGCGCAGGCG GTCCGGCCATG
9901 CCCCAGGCTT CGTTTTGACA TCGGCGCAGG TCTTTGTAGT AGTCTTGCTG GAGCCTTTCT
9961 ACCGGCACTT CTTCTTCTCC TTCCTCTTGT CCTGCATCTC TTGCATCTAT CGCTGCGGCG
10021 GCGGCGGAGT TTGGCCGCTAG GTGGCGCCCT CTTCCTCCCA TGCGTGTGAC CCCGAAGCCC
10081 CTCATCGGCT GAAGCAGGGC TAGGTGCGCG ACAACGCGCT CGGCTAATAT GGCCTGCTGC
10141 ACCTGCGTGA GGGTAGACTG GAAGTCATCC ATGTCCACAA AGCGGTGGTA TGCGCCCCGTG
10201 TTGATGGTGT AAGTGCAGTT GGCCATAACG GACCAGTTAA CGGTCTGGTG ACCCGGCTGC
10261 GAGAGCTCGG GTTACCTGAG ACGCGAGTAA GCCCTCGAGT CAAATACGTA GTCGTGCAA
10321 GTCCGCACCA GGTACTGGTA TCCACCAAAA AAGTGCGGCG GCGGCTGGCG GTAGAGGGGC
10381 CAGCGTAGGG TGGCCGGGGC TCCGGGGGCG AGATCTTCCA ACATAAGGCG ATGATATCCG
10441 TAGATGTACC TGGACATCCA GGTGATGCCG GCGGCGGTGG TGGAGGCGCG CGGAAAGTCG
10501 CGGACGCGGT TCCAGATGTT GCGCAGCGCG AAAAAAGTGCT CCATGGTCGG GACGCTCTGG
10561 CCGGTCAGGC GCGCGCAATC GTTGACGCTC TAGACCGTGC AAAAGGAGAG CCTGTAAGCG
10621 GGCACCTCTC CGTGGTCTGG TGGATAAATT CGCAAGGGTA TCATGGCGGA CGACCGGGGT
10681 TCGAGCCCCG TATCCGGCCG TCCGCCGTGA TCCATGCGGT TACCGCCCCG GTGTGCAACC
10741 CAGGTGTGCG ACGTCAGACA ACGGGGGAGT GCTCCTTTTG GCTTCCTTCC AGGCGCCGCG
10801 GCTGCTGCGC TAGCTTTTTT GGCCACTGGC CGCGCGCAGC GTAAGCGGTT AGGCTGAAAA
10861 GCGAAAGCAT TAAGTGGCTC GCTCCCTGTA GCCGGAGGGT TATTTTCCAA GGGTTGAGTC
10921 GCGGGACCCC CGGTTTCGAGT CTCGGACCGG CCGGACTGCG GCGAACGGGG GTTGCCTCC
10981 CCGTCATGCA AGACCCCGCT TGCAAATTCC TCCGGAACA GGGACGAGCC CCTTTTTGCG
11041 TTTTCCAGAG TGCATCCGGT GCTGCGGAG ATGCGCCCCC CTCCTCAGCA GCGGCAAGAG
11101 CAAGAGCAGC GGCAGACATG CAGGGCACCC TCCCTCCTC CTACCGCGTC AGGAGGGGCG
11161 ACATCCGCGG TTGACGCGGC AGCAGATGGT GATTACGAAC CCCCAGCGGC CCGGCCCGCG
11221 CACTACCTGG ACTTGAGGGA GGGCGAGGGC CTGGCGCGGC TAGGAGCGCC TCTCCTGAG
11281 CCGTACCCAA GGGTGCAGCT GAAGCGTGAT ACGCGTGAGG CGTACGTGCC GCGGCAGAAC
11341 CTGTTTCGCG ACCGCGAGGG AGAGGAGCCC GAGGAGATGC GGGATCGAAA GTTCCACGCA
11401 GGGCGCGAGC TGCGGCATGG CCTGAATCGC GAGCGGTTGC TGCGCGAGGA GGACTTTGAG
11461 CCCGACGCGC GAACCGGGAT TAGTCCCGCG GAACCGAGG ATTAACCTTC AAAAAAGCTT TAACAACCAC
11521 ACCGCATACG AGCAGACGGT GAACCGAGG GCTATAGGAC TGATGCATCT GTGGGACTTT
11581 GTGCGTACGC TTGTGGCGCG CGAGGAGGTG AAGCCGCTCA TGGCGCAGCT GTTCTTATA
11641 GTAAGCGCGC TGGAGCAAAA CCAAATAGC AAGGATGCGC TGCTAAACAT AGTAGAGCCC
11701 GTGCAGACA GCAGGGACAA CGAGGCATTG AGGGATGCGC GCATAGTGGT GCAGGAGCGC
11761 GAGGCGCGCT GGCTGCTCGA TTTGATAAAC ATCCTGCAGA CCATGCTTAG CCTGGGCAAG
11821 AGCTTGAGCC TGGCTGACAA GGTGGCCGCT ATCAACTATT TAGACAAGGA GGTAAAGATC
11881 TTTTACGCCC GCAAGATATA CCATACCCCT TACGTTCCCA TAGACAGGA CCTGGGCGTT
11941 GAGGGGTTCT ACATGCGCAT GGCCTGGAAG GTGCTTACCT TGAGCGACGA GCTCAGCGAC
12001 TATCGCAACG AGCGCATCCA CAAGGCCGTG AGCGTGAGCC GCGGCGCGCA CGATAGAGAG
12061 CGCGAGCTGA TGCACAGCCT GCAAAGGGCC CTGGCTGGCA CCGGCGAGCG CGATAGAGAG
12121 GCCGAGTCTT ACTTTGACGC GGGCGCTGAC CTGCGCTGGG CCGGCGCTGG CAACGTCGGC
12181 GAGGCAGCTG GGGCCGGACC TGGGCTGGCG GTGGCACCCG CGCGCGCTGG GTACTAAGCG
12241 GCGGTGGAGG AATATGACGA GGACGATGAG TACGAGCCAG AGGACGGACC GCGGCTGCGC
12301 GTGATGTTTC TGATCAGATG ATGCAAGACG CAACGGACCC CCAGGTCATG GACCGCATCA
12361 AGAGCCAGCC GTCCGGCCTT AACTCCACGG ACGACTGGCG CCAGGTCATG GACCGCATCA
12421 TGTCGCTGAC TGCGCGCAAT CCTGACGCGT TCCGGCAGCA GCCGCGAGCC AACCAGCTCT
12481 CCGCAATTCT GGAAGCGGTG GTCCCGGCGC GCGCAAACCC CACGCACGAG AAGGTGCTGG
12541 CGATCGTAAA CGCGCTGGCC GAAAACAGGG CCATCCGGCC CGACGAGGCC GGCCTGGTCT
12601 ACGACGCGCT GCTTCAGCGC GTGGCTCGTT ACAACAGCGG CAACGTGACG ACCAACCCTG
12661 ACCGGCTGGT GGGGGATGTG CGCGAGGCCG TGGCGCAGCG TGAGCGCGCG CAGCAGCAGG
12721 GCAACCTGGG CTCCATGGTT GCACTAAACG CCTTCCTGAG TACACAGCCC GCAACGTCG
12781 CGCGGGGACA GGAGGACTAC ACCAACCCTT TGAGCGCACT GCGGCTAATG GTGACTGAGA
12841 CACCGCAAAG TGAGGTGTAC CAGTCTGGGC CAGACTATTT TTTCCAGACC AGTAGACAAG
12901 GCCTGCAGAC CGTAAACCTG AGCCAGGCTT TCAAAAACCT GCAGGGGCTG TGGGGGGTGC

FIGURE 21
(SHEET 4)

12961 GGGCTCCAC AGGCGACCGC GCGACCGTGT CTAGCTTGCT GACGCCCAAC TCGCGCCTGT
 13021 TGCTGCTGCT AATAGCGCCC TTCACGGACA GTGGCAGCGT GTCCCGGGAC ACATACCTAG
 13081 GTCACCTTGCT GACACTGTAC CGCGAGGCCA TAGGTCAGGC GCATGTGGAC GAGCATACTT
 13141 TCCAGGAGAT TACAAGTGTC AGCCGCGCGC TGGGGCAGGA GGACACGGGC AGCCTGGAGG
 13201 CAACCTAAA CTACCTGCTG ACCAACCAGC GGCAGAAGAT CCCCTCGTTG CACAGTTTAA
 13261 ACAGCGAGGA GGAGCGCATT TTGCGCTACG TGCAGCAGAG CGTGAGCCTT AACCTGATGC
 13321 GCGACGGGGT AACGCCCAGC GTGGCGCTGG ACATGACCGC GCCTAATGGA CTACTTGCAT CGCGCGGCCG
 13381 TGTATGCCTC AAACCGGCCG TTTATCAACC GCCTAATGGA CTACTTGCAT CGCGCGGCCG
 13441 CCGTGAACCC CGAGTATTTT ACCAATGCCA TCTTGAACCC GCACTGGCTA CCGCCCCCTG
 13501 GTTTCTACAC CGGGGGATTTC GAGGTGCCCC AGGGTAACGA TGGATTCTC TGGGACGACA
 13561 TAGACGACAG CGTGTTTTCC CCGCAACCGC AGACCCTGCT AGAGTTGCAA CAGCGCGAGC
 13621 AGGCAGAGGC GCGCTGCGA AAGGAAAGCT TCCGCAGGCC AAGCAGCTTG TCCGATCTAG
 13681 GCGCTGCGGC CCCGCGGTCA GATGCTAGTA GCCCATTTC AAGCTTGATA GGGTCTCTTA
 13741 CCAGCACTCG CACCACCCGC CCGCGCCTGC TGGGCGAGGA GGAGTACCTA AACAACCTCGC
 13801 TGCTGCAGCC GCAGCGCGAA AAAACCTGC CTCCGGCATT TCCCAACAAC GGGATAGAGA
 13861 GCCTAGTGGA CAAGATGAGT AGATGGAAGA CGTACGCGCA GGAGCACAGG GACGTGCCAG
 13921 GCCCGCGCCC GCCCACCCTG CGTCAAAGGC ACGACCGTCA GCGGGGTCTG GTGTGGGAGG
 13981 ACGATGACTC GGCAGACGAC AGCAGCTCC TGGATTGTTG AGGGAGTGGC AACCCGTTTG
 14041 CGCACCTTCG CCCCAGGCTG GGGAGAATGT TTTAAAAAAA AAAAAGCATG ATGCAAAATA
 14101 AAAAECTCAC CAAGGCCATG GCACCGAGCG TTGGTTTCT TGTATTCCCC TTAGTATGCG
 14161 GCGCGCGCGC ATGTATGAGG AAGGTCTCTC TCCCTCCTAC GAGAGTGTGG TGAGCGCGGC
 14221 CCGAGTGGCG GCGGCGCTGG GTTCTCCCTT CGATGCTCCC CTGGACCCGC CGTTTGTGCC
 14281 TCCGCGGTAC CTGCGGCCTA CCGGGGGGAG AAACAGCATC CGTTACTCTG AGTTGGCACC
 14341 CCTATTCGAC ACCACCCGTG TGTACCTGGT GGACAACAAG TCAACGGATG TGGCATCCCT
 14401 GAACTACCAG AACGACCACA GCAACTTTCT GACCACGGTC ATTCAAAACA ATGACTACAG
 14461 CCCGGGGGAG GCAAGCACAC AGACCATCAA TCTTGACGAC CGGTGCGACT GGGGCGGCGA
 14521 CCTGAAAACC ATCCTGCATA CCAACATGCC AAATGTGAAC GAGTTCATGT TTACCAATAA
 14581 GTTTAAGGCG CGGGTGATGG TGTCGCGCTT GCCTACTAAG GACAATCAGG TGGAGCTGAA
 14641 ATACGAGTGG GTGGAGTTCA CGCTGCCCCG GGGCAACTAC TCCGAGACCA TGACCATAGA
 14701 CCTTATGAAC AACGCGATCG TGGAGCACTA CTTGAAAGTG GGCAGACAGA ACGGGGTTCT
 14761 GGAAAGCGAC ATCGGGGTAA AGTTTGACAC CCGCAACTTC AGACTGGGGT TTGACCCCGT
 14821 CACTGGTCTT GTCATGCCTG GGGTATATAC AAACGAAGCC TTCCATCCAG ACATCATTTT
 14881 GCTGCCAGGA TGCGGGGTGG ACTTCACCCA CAGCCGCTG AGCAACTTGT TGGGCATCCG
 14941 CAAGCGGCAA CCCTTCCAGG AGGGCTTTAG GATCACCTAC GATGATCTGG AGGGTGGTAA
 15001 CATTCGCCGA CTGTTGGATG TGGACGCCCTA CCAGGCGAGC TTGAAAGATG ACACCGAACA
 15061 GGGCGGGGGT GGCGCAGGCG GCAGCAACAG CAGTGGCAGC GGCGCGGAAG AGAAGCTCAA
 15121 CGCGGCAGCC GCGGCAATGC AGCCGGTGGA GGACATGAAC GATCATGCCA TTCGCGGCGA
 15181 CACCTTTGCC ACACGGGCTG AGGAGAAGCG CGCTGAGGCC GAAGCAGCGG CCGAAGCTGC
 15241 CGCCCCCGCT GCGCAACCCG AGGTCGAGAA GCCTCAGAAG AAACCGGTGA TCAAACCCCT
 15301 GACAGAGGAC AGCAAGAAAC GCAGTTACAA CCTAATAAGC AATGACAGCA CCTTCACCCA
 15361 GTACCGCAGC TGGTACCTTG CATACAACTA CCGGACCCCT CAGACCGGAA TCCGCTCATG
 15421 GACCCTGCTT TGCACTCCTG ACGTAACCTG CGGCTCGGAG CAGGTCTACT GGTGCTTGCC
 15481 AGACATGATG CAAGACCCCG TGACCTTCCG CTCCACGCGC CAGATCAGCA ACTTTCCGGT
 15541 GGTGGGCGCC GAGCTGTTGC CCGTGCACTC CAAGAGCTTC TACAACGACC AGGCCGTCTA
 15601 CTCCCAACTC ATCCGCCAGT TTACCTCTCT GACCCACGTG TTCAATCGCT TTCCCGAGAA
 15661 CCAGATTTTG GCGCGCCCGC CAGCCCCCAC CATCACACC GTCAAGTAAA ACGTTCCTGC
 15721 TCTCACAGAT CACGGGACGC TACCGCTGCG CAACAGCATC GGAGGAGTCC AGCGAGTGAC
 15781 CATTACTGAC GCCAGACGCC GCACCTGCCC CTACGTTTAC AAGGCCCTGG GCATAGTCTC
 15841 GCCGCGCGTC CTATCGAGCC GCACTTTTTC AGCAAGCATG TCCATCCTTA TATCGCCCAG
 15901 CAATAACACA GGCTGGGGCC TGCGCTTCCC AAGCAAGATG TTTGGCGGGG CCAAGAAGCG
 15961 CTCCGACCAA CACCCAGTGC GCGTGCGCGG GCACTACCGC GCGCCCTGGG GCGCGCACAA
 16021 ACGCGGCCGC ACTGGGCGCA CCACCGTCGA TGACGCCATC GACGCGGTGG TGGAGGAGGC
 16081 GCGCAACTAC ACGCCACGC CGCCACCAGT GTCCACAGTG GACGCGGCCA TTCAGACCGT
 16141 GGTGCGCGGA GCGCGGCGCT ATGCTAAAAT GAAGAGACGG CCGAGGCGCG TAGCACGTGC
 16201 CCACCGCCGC CGACCCGGCA CTGCCGCCCA ACGCGCGCGG GCGGCCCTGC TTAACCGCGC
 16261 ACGTCGCACC GGCCGACGGG CGGCCATGCG GGCCGCTCGA AGGCTGGCCG CCGGTATTGT
 16321 CACTGTGCCC CCCAGGTCCA GCGCAGGAGC GGCCGCGCA GCAGCCGCGG CCATTAGTGC

FIGURE 21
(SHEET 5)

16381	TATGACTCAG	GGTCGCAGGG	GCAACGTGTA	TTGGGTGCGC	GACTCGGTAA	GCGGCCTGGG
16441	CGTGCCCGTG	CGCACCCGCC	CCCCGCGCAA	CTAGATTGCA	AGAAAAAACT	ACTTAGACTC
16501	GTACTGTTGT	ATGTATCCAG	CGGCGGCGGC	GCGCAACGAA	GCTATGTCCA	AGCGCAAAAT
16561	CAAAGAAGAG	ATGCTCCAGG	TCATCGCGCC	GGAGACTTAT	GGCCCCCGA	AGAAGGAAGA
16621	GCAGGATTAC	AAGCCCCGAA	AGCTAAAGCG	GGTCAAAAAG	AAAAAGAAAG	ATGATGATGA
16681	TGAACTTGAC	GACGAGGTGG	AACCTGCTGCA	CGCTACCGCG	CCCAGCGGAC	GGGTACAGTG
16741	GAAAGGTGCA	CGCGTAAACG	GTGTTTTGCG	ACCCGCGACC	ACCGTAGTCT	TTACGCCCCG
16801	TGAGCGCTCC	ACCCGCACCT	ACAAGCGCGT	GTATGATGAG	GTGTACGGCG	ACGAGGACCT
16861	GCTTGAGCAG	CCCAACGAGC	GCCTCGGGGA	GTTTGCCTAC	GGAAGCGCG	ATAAGGACAT
16921	GCTGGCGTTG	CCGCTGGACG	AGGGCAACCC	AACACCTAGC	CTAAAGCCCC	TAACACTGCA
16981	GCAGGTGCTG	CCCGCGCTTG	CACCGTCCGA	AGAAAAGCGC	GGCCTAAAGC	GCGAGTCTGG
17041	TGACTTGCGA	CCCAACCGTG	AGCTGATGGT	ACCCAAGCGC	CAGCGACTGG	AAGATGTCTT
17101	GGAAAAAATG	ACCGTGGAAC	CTGGGTGGGA	CCCCGAGGTC	CGCGTGCGGC	CAATCAAGCA
17161	GGTGGCGCCG	GGACTGGGCG	TGCGAGCCGT	GGACGTTTCA	ATACCCACTA	CCAGTAGCAC
17221	CAGTATTGCC	ACCGCCACAG	AGGGCATGGA	GACACAAACG	TCCCCGGTTG	CCTCAGCGGT
17281	GGCGGATGCC	CGGGTGCAGG	CGGTCGCTGC	GGCCGCGTCC	AAGACCTCTA	CCGAGGTGCA
17341	AACGGACCCG	TGGATGTTTT	GCGTTTTCAGC	CCCCGGCGCG	CCGCGCGGTT	CGAGGAAGTA
17401	CGGCGCCGCC	AGCGCGCTAC	TGCCCCGAATA	TGCCCTACAT	CCTTCCATTG	CGCCTACCCC
17461	CGGCTATCGT	GGCTACACCT	ACCGCCCCAG	AAGACGAGCA	ACTACCCGAC	GCCGAACCAC
17521	CACTGGAACC	CGCCGCGCGC	GTCGCGCTCG	CCAGCCCGTG	CTGGCCCCGA	TTTCCGTGCG
17581	CAGGGTGGCT	CGCGAAGGAG	GCAGGACCTT	GGTGCTGCCA	ACAGCGCGCT	ACCACCCAG
17641	CATCGTTTAA	AAGCCGGTCT	TTGTGGTTCT	TGCAGATATG	GCCCTCACCT	GCCGCTCCG
17701	TTTCCCGGTG	CGGGGATTCC	GAGGAAGAAT	GCACCGTAGG	AGGGGCATGG	CCGGCCACGG
17761	CCTGACGGGC	GCGATGCGTC	GTGCGCACCA	CCGGCGGCGG	CGCGCGTTCG	ACCGTCGCAT
17821	CGCGCGCGGT	ATCCTGCCCC	TCCTTATTCC	ACTGATCGCC	GCGGCGATTG	GCGCCGTGCC
17881	CGGAATTGCA	TCCGTGCGCT	TGCAGGCGCA	GAGACACTGA	TTAAAAACAA	GTTGCATGTG
17941	GAAAAATCAA	AATAAAAAGT	CTGGACTCTC	ACGCTCGCTT	GGTCCTGTAA	CTATTTTGTA
18001	GAATGGAAGA	CATCAACTTT	GCGTCTCTGG	CCCCGCGACA	CGGCTCGCGC	CCGTTTCATG
18061	GAAACTGGCA	AGATATCGGC	ACCAAGCAATA	TGAGCGGTGG	CGCTTCAGC	TGGGGCTCGC
18121	TGTGGAGCGG	CATTAATAAT	TTGCGTTCCA	CCGTAAAGAA	CTATGGCAGC	AAGCCCTGGA
18181	ACAGCAGCAC	AGGCCAGATG	CTGAGGGATA	AGTTGAAAGA	GCAAAATTTT	CAACAAAAGG
18241	TGGTAGATGG	CTTGGCCTCT	GGCATTAGCG	GGGTGGTGGA	CTGGCCCAAC	CAGGCAGTGC
18301	AAAATAAGAT	TAACAGTAAG	CTTGATCCCC	GCCCTCCCGT	AGAGAGCCT	CCACCGGCCG
18361	TGGAGACAGT	GTCTCCAGAG	GGGCGTGGCG	AAAAGCTTCC	GCGCCCCGAC	AGGGAAGAAA
18421	CTCTGGTGAC	GCAAAATAGAC	GAGCCTCCCT	CGTACGAGGA	GGCACTAAAG	CAAGGCCTGC
18481	CCACCACCCG	TCCCATCGCG	CCCATTGGCTA	CCGGAGTGCT	GGGCCAGCAC	ACACCCGTAA
18541	CGCTGGACCT	GCCTCCCCCG	CGCGACACCC	AGCAGAAACC	TGTGCTGCCA	GGCCCCACCG
18601	CCGTTGTTGT	AACCCGTCCT	AGCCGCGCGT	CCCTGCGCCG	CGCCGCCAGC	GGTCCGCGAT
18661	CGTTGCGGCC	CGTAGCCAGT	GGCAACTGGC	AAAGCACACT	GAACAGCATC	GTGGGTCTGG
18721	GGGTGCAATC	CCTGAAGCGC	CGACGATGCT	TCTGAATAGC	TAACGTGTCT	TATGTGTGTC
18781	ATGTATGCGT	CCATGTCGCC	GCCAGAGGAG	CTGCTAGACC	GCCGCGCGCC	CGCTTTCCAA
18841	GATGGCTACC	CCTTCGATGA	TGCCGCGAGT	GTCTTACATG	CACATCTCGG	GCCAGGACGC
18901	CTCGGAGTAC	CTGAGCCCCG	GGTGTGGTGA	TTTTGCCCGC	GCCACCGAGA	CGTACTTCAG
18961	CCTGAATAAC	AAGTTTAGAA	ACCCACGGT	GGCGCCTACG	CACGACGTGA	CCACAGACCG
19021	GTCCAGCGGT	TTGACGCTGC	GGTTCATCCC	TGTGGACCGT	GAGGATACTG	CGTACTCGTA
19081	CAAGGCGCGG	TTCACCTTAG	CTGTGGGTGA	TAACCGTGTG	CTGGACATGG	CTTCCACGTA
19141	CTTTGACATC	CGCGGCGTGC	TGGACAGGGG	CCCTACTTTT	AAGCCTACT	CTGGCACTGC
19201	CTACAACGCC	CTGGCTCCCA	AGGGTGCCCC	AAATCCTTGC	GAACTGGATG	AAGCTGCTAC
19261	TGCTCTTGAA	ATAAACCTAG	AAGAAGAGGA	CGATGACAAC	GAAGACGAAG	TAGACGAGCA
19321	AGCTGAGCAG	CAAAAACTC	ACGTATTTGG	GCAGGCGCCT	TATTCTGGTA	TAAATATTAC
19381	AAAGGAGGGT	ATTCAAATAG	GAGAATCTCA	GTGGTACGAA	ACTGAAATTA	ATCATGACAG
19441	TCAACTTGAA	CCTCAAATAG	CTACCCCAAT	GAAACCATGT	TACGGTTTCA	ATGCAAAAAC
19501	TGGGAGAGTC	CTTAAAAAGA	AAGGCATTCT	TGTAAAGCAA	CAAAATGGAA	AGCTAGAAAG
19561	CACAAATGAA	AATGGAGGGC	TCTCAACTAC	TGAGGCGACC	GCAGGCAATG	GTGATAACTT
19621	TCAAGTGGAA	ATGCAATTTT	ACAGTGAAGA	TGTAGATATA		

19801	GCCCAACAGG	CCTAATTACA	TTGCTTTT	AGGACAATTT	ATTGGTCTAA	TGTATTACAA
19861	CAGCACGGGT	AATATGGGTG	TTCTGGCGGG	CCAAGCATCG	CAGTTGAATG	CTGTTGTAGA
19921	TTTGCAAGAC	AGAAACACAG	AGCTTTCATA	CCAGCTTTTG	CTTGATTCCA	TTGGTGATAG
19981	AACCAGGTAC	TTTTCTATGT	GGAATCAGGC	TGTTGACAGC	TATGATCCAG	ATGTTAGAAT
20041	TATTGAAAAT	CATGGAACCTG	AAGATGAACT	TCCAATAATAC	TGCTTTCCAC	TGGGAGGTGT
20101	GATTAATACA	GAGACTCTTA	CCAAGGTAAA	ACCTAAAACA	GGTCAGGAAA	ATGGATGGGA
20161	AAAAGATGCT	ACAGAATTTT	CAGATAAAAA	TGAAATAAGA	GTTGGAAATA	ATTTTGCCAT
20221	GGAAATCAAT	CTAAATGCCA	ACCTGTGGAG	AAATTTCTCTG	TACTCCAACA	TAGCCGTGTA
20281	TTTGCCCCGAC	AAGCTAAAGT	ACAGTCCTTC	CAACGTAAAA	ATTTCTGATA	ACCCAAACAC
20341	CTACGACTAC	ATGAACAAGC	GAGTGGTGGC	TCCCGGGTTA	TGGAGCTGCT	ACATTAACCT
20401	TGGAGCACGC	TGGTCCCTTG	ACTATATGGA	CAACGTCAAC	CGCTATGTGC	CCTTCCACAT
20461	TGCTGGCCTG	CGCTACCGCT	CAATGTTGCT	GGGCAATGGT	CTCCTGCCGG	GCTCATAAC
20521	CCAGGTGCCT	CAGAAGTTCT	TTGCCATTAA	AAACCTCCTT	CAGAGCTCCC	TAGGAAATGA
20581	CTACGAGTGG	AACTTCAGGA	AGGATGTTAA	CATGTTCTGT	TGCCTTTACG	CCACCTTCTT
20641	CCTAAGGGTT	GACGGAGCCA	GCATTAAAGT	TGATAGCATT	CTTAGAAACG	ACACCAACGA
20701	CCCCATGGCC	CACAACACCG	CCTCCACGCT	TGAGGCCATG	TACCTTATAC	CCGCCAACGC
20761	CCAGTCTTTT	AACGACTATC	TCTCCGCCGC	CAACATGCTC	GACCTTCCG	GCTGGGCCTT
20821	TACCAACGTG	CCCATATCCA	TCCCCTCCCG	CAACTGGGCG	GGCTACGACC	CTTATTACAC
20881	CACGCGCCTT	AAGACTAAGG	AAACCCCATC	ACTGGGCTCG	CTCAACCACA	CCTTTAAGAA
20941	CTACTCTGGC	TCTATACCTT	ACCTAGATGG	AACCTTTTAC	AATGACCGCC	TGCTTACCCC
21001	GGTGGCCATT	ACCTTTGACT	CTTCTGTGAG	CTGGCCTGGC	TACAACGTTG	CCCAGTGTA
21061	CAACGAGTTT	GAAATTAAGC	GCTCAGTTGA	GCTAGCTAAC	TACAACATTG	GCTACCGAGG
21121	CATGACCAAA	GACTGGTTCC	TGGTACAAAT	CGGGGAGGGT	TTCTTTAGAA	ACTTCCAGCC
21181	CTTCTATATC	CCAGAGAGCT	ACAAGGACCG	CATGTACTCC	TACCAACAGG	TGGGCATCCT
21241	CATGAGCCGT	CAGGTGGTGG	ATGATACTAA	ATACAAGGAC	CTACCTTGCC	CCACCATGC
21301	ACACCAACAC	AACAACCTCTG	GATTTGTTGG	TATAGGCAAG	ACCGCAGTTG	ACAGCATTAC
21361	GGCCTACCCT	GCTAACTTCC	CCTATCCGCT	TTGGCGCATC	CCATTCTCCA	GTAACCTTAT
21421	CCAGAAAAAG	TTTCTTTGCG	ATCGCACCTT	AAACCTTCTC	TACGCCAACT	CCGCCACGC
21481	GTCCATGGGC	GCACTCACAG	ACCTGGGCCA	GGACGAGCCC	ACCCTTCTTT	ATGTTTGTG
21541	GCTAGACATG	ACTTTTGAGG	TGGATCCCAT	GCCGCACCGC	GGCGTCATCG	AAACCGTGTA
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 AUTHORS Self
 JOURNAL Unpublished.

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 1381 GACTTGCTTA ACGAGCCTGG GCAACCTTTG GACTTGAGCT GTAAACGCCC CAGGCCATAA
 1441 GGTGTAAACC TGTGATTGCG TGTGTGTTA ACGCCTTTGT TTGCTGAATG AGTTGATGTA
 1501 AGTTTAAATA AGGGTGAGAT AATGTTTAA TTGCATGGCG TGTTAAATGG GGCGGGGCTT
 1561 AAAGGGTATA TAATGCGCCG TGGGCTAATC TTGGTTACAT CTGACCTCAT GGAGGCTTGG
 1621 GAGTGTTTGG AAGATTTTTC TGCTGTGCGT AACTTGCTGG AACAGAGCTC TAACAGTACC
 1681 TCTTGTTTTT GGAGGTTTCT GTGGGGCTCA TCCCAGGCAA AGTTAGTCTG CAGAATTAAG
 1741 GAGGATTACA AGTGGAATT TGAAGAGCTT TTGAAATCCT TCAAGACTTT GGATTTTTCC
 1801 TTGAATCTGG GTCACCAGGC GCTTTTCCAA GAGAAGGTCA TCAAGACTTT GGATTTTTCC
 1861 ACACCGGGGC GCGCTGCGGC TGCTGTTGCT TTTTGAGTT TTATAAAGGA TAAATGGAGC
 1921 GAAGAAACCC ATCTGAGCGG GGGGTACCTG CTGGATTTTC TGGCCATGCA TCTGTGGAGA
 1981 GCGGTTGTGA GACACAAGAA TCGCCTGCTA CTGTTGTCTT CCGTCCGCCG GCGGATAATA
 2041 CCGACGGAGG AGCAGCAGCA GCAGCAGGAG GAAGCCAGGC GGCGGCGGCA GGAGCAGAGC
 2101 CCATGGAACC CGAGAGCCGG CCTGGACCCT CGGGAATGAA TGTGTACAG GTGCTGAAC
 2161 TGTATCCAGA ACTGAGACGC ATTTTGACAA TTACAGAGGA TAGGAATCTA GCTTTTAGCT
 2221 TAAAGAGGGA GCGGGGGGCT TGTGAGGCTA CAGAGGAGGC TAGGAATCTA GCTTTTAGCT
 2281 TAATGACCAG ACACCGTCTT GAGTGTATTA CTTTCAACA GATCAAGGAT AATTGCGCTA
 2341 ATGAGCTTGA TCTGCTGGCG CAGAAGTATT CCATAGAGCA GCTGACCACT TACTGGCTGC
 2401 AGCCAGGGGA TGATTTTGAG GAGGCTATTA GGGTATATGC AAAGGTGGCA CTTAGGCCAG

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FIGURE 22
 (SHEET 1)

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2461 ATTGCAAGTA CAAGATCAGC AAACCTTGTA ATATCAGGAA TTGTTGCTAC ATTTCTGGGA
2521 ACGGGGCCGA GGTGGAGATA GATACGGAGG ATAGGGTGGC CTTTAGATGT AGCATGATAA
2581 ATATGTGGCC GGGGGTGCTT GGCATGGACG GGGTGGTTAT TATGAATGTA AGGTTTACTG
2641 GCCCAATTT TAGCGGTACG GTTTTCCTGG CCAATACCAA CCTTATCCTA CACGGTGTA
2701 GCTTCTATGG GTTTAACAAT ACCTGTGTGG AAGCCTGGAC CGATGTAAGG GTTCGGGGCT
2761 GTGCCTTTTA CTGCTGCTGG AAGGGGGTGG TGTGTCGCCC CAAAAGCAGG GCTTCAATTA
2821 AGAAATGCCT CTTTGAAAGG TGTACCTTGG GTATCCTGTC TGAGGGTAAC TCCAGGGTGC
2881 GCCACAATGT GGCCTCCGAC TGTGGTTGCT TCATGCTAGT GAAAAGCGTG GCTGTGATTA
2941 AGCATAACAT GGTATGTGGC AACTGCGAGG ACAGGGCCTC TCAGATGCTG ACCTGCTCGG
3001 ACGGCAACTG TCACCTGCTG AAGACCATTC ACGTAGCCAG CCACTCTCGC AAGGCCTGGC
3061 CAGTGTTTGA GCATAACATA CTGACCCGCT GTTCCTTGCA TTTGGGTAA CAGGAGGGG
3121 TGTTCTTACC TTACCAATGC AATTTGAGTC AACTAAGAT ATTGCTTGAG CCCGAGAGCA
3181 TGTCCAAGGT GAACCTGAAC GGGGTGTTTG ACATGACCAT GAAGATCTGG AAGTGCTGA
3241 GGTACGATGA GACCCGCACC AGGTGCAGAC CCTGCGAGTG TGGCGGTAA CATATTAGGA
3301 ACCAGCCTGT GATGCTGGAT GTGACCGAGG AGCTGAGGCC CGATCACTTG GTGCTGGCCT
3361 GCACCCGCGC TGAGTTTGGC TCTAGCGATG AAGATAACAGA TTGAGGTACT GAAATGTGTG
3421 GCGGTGGCTT AAGGGTGGGA AAGAATATAT AAGGTGGGGG TCTTATGTAG TTTTGTATCT
3481 GTTTTGACAG AGCCGCCGCC GCCATGAGCA CCAACTCGTT TGATGGAAGC ATTGTGAGCT
3541 CATATTTGAC AACCGCGCAT CCCCCATGGG CCGGGGTGCG TCAGAATGTG ATGGGCTCCA
3601 GCATTGATGG TCGCCCCGTC CTGCCCCGAA ACTCTACTAC CTTGACCTAC GAGACCGTGT
3661 CTGGAACGCC GTTGGAGACT GCAGCCTCCG CCGCCGCTTC AGCCGCTGCA GCCACCGCC
3721 GCGGGATTGT GACTGACTTT GCTTTCCTGA GCCCGCTTGC AAGCAGTGCA GCTTCCCGTT
3781 CATCCGCCCG CGATGACAAG TTGACGGCTC TTTTGGCACA ATTGGATTCT TTGACCCGGG
3841 AACTTAATGT CGTTTCTCAG CAGCTGTTGG ATCTGCGCCA GCAGGTTTCT GCCCTGAAGG
3901 CTTCTCTCCC TCCCAATGCG GTTTAAACA TAAATAAAAA ACCAGACTCT GTTTGGATTT
3961 GGATCAAGCA AGTGTCTTGC TGTCTTTATT TAGGGGTTTT GCGCGCGCGG TAGGCCCCGG
4021 ACCAGCGGTC TCGGTCGTTG AGGGTCTGT GTATTTTTTC CAGGACGTGG TAAAGGTGAC
4081 TCTGGATGTT CAGATACATG GGCATAAGCC CGTCTCTGGG GTGGAGGTAG CACCACTGCA
4141 GAGCTTCATG CTGCGGGGTG GTGTTGTAGA TGATCCAGTC GTAGCAGGAG CGCTGGGCGT
4201 GGTGCCTAAA AATGTCTTTC AGTAGCAAGC TGATTGCCAG GGGCAGGCCC TTGGTGTAA
4261 TTTTACAAA GCGGTTAAGC TGGGATGGGT GCATACGTGG GGATATGAGA TGCATCTTGG
4321 ACTGTATTTT TAGGTTGGCT ATGTTCCCAG CCATATCCCT CCGGGGATTC ATGTTGTGCA
4381 GAACCACCAG CACAGTGTAT CCGGTGCACT TGGAATTTT GTCATGTAGC TTAGAAGGAA
4441 ATGCGTGGA GAACTTGGAG ACGCCTTGT GACCTCCAAG ATTTTCCATG CATTTCGTCA
4501 TAATGATGGC AATGGGCCCA CCGGCGCGCG CCTGGGCGAA GATATTTCTG GGATCACTAA
4561 CGTCATAGTT GTGTTCCAGG ATGAGATCGT CATAGGCCAT TTTTACAAAG CGCGGGCGGA
4621 GGGTGCCAGA CTGCGGTATA ATGTTTCCAT CCGGCCCCAGG GCGGTAGTTA CCCTCACAGA
4681 TTTGCATTTT CCACGCTTTG AGTTCAGATG GGGGGATCAT GTCTACCTGC GGGGCGATGA
4741 AGAAAACGGT TTCCGGGGTA GGGGAGATCA GCTGGGAAGA AAGCAGGTTT CTGAGCAGCT
4801 GCGACTTACC GCAGCCGGTG GGCCCGTAAA TCACACCTAT TACCGGGTGC AACTGGTAGT
4861 TAAGAGAGCT GCAGCTGCCG TCATCCCTGA GCAGGGGGGC CACTTCGTTA AGCATGTCCC
4921 TGACTCGCAT GTTTTCCCTG ACCAAATCCG CCAGAAGGCG CTCGCCGCC AGCGATAGCA
4981 GTTCTTGCAA GGAAGCAAAG TTTTCAACG GTTTGAGACC GTCCGCCGTA GGCATGCTTT
5041 TGAGCGTTTG ACCAAGCAGT TCCAGGCGGT CCCACAGCTC GGTCACCTGC TCTACGGCAT
5101 CTCGATCCAG CATATCTCCT CGTTTCGCGG GTTGGGGCGG CTTTCGCTGT ACGGAGTAG
5161 TCGGTGCTCG TCCAGACGGG CCAGGTCAT GTCTTTCCAC GGGCGCAGGG TCCTCGTCAG
5221 CGTAGTCTGG GTCACGGTGA AGGGGTGCGC TCCGGGCTGC CCGGTCTTCG CCCTGCGCGT CCGCCAGGTA
5281 GAGGCTGGTC CTGCTGGTGC TGAAGCGCTG CTCCGCGCGG TGGCCCTTGG CGCGCAGCTT
5341 GCATTTGACC ATGGTGTCTG AGTCCAGCCC GTGCAGACTT TTGAGGGCGT AGAGCTTGGG
5401 GCCCTTGGAG GAGGCGCCGC ACGAGGGGCA GTGCAGACTT CAGGCCCCGC AGACGGTCTC
5461 CGCGAGAAAT ACCGATTCCG GGGAGTAGGC ATCCGCGCGG CAGGCCCCGC AGACGGTCTC
5521 GCATTCCACG AGCCAGGTGA GCTCTGGCCG TTCGGGTGTA AAAACAGGT TTTCCCATG
5581 CTTTTTGATG CGTTTCTTAC CTCTGGTTTC CATGAGCCGG TGTCCACGCT CGGTGACGAA
5641 AAGGCTGTCC GTGTCCCCGT ATACAGACTT GAGAGGCCGT TCCTCGAGCG GTGTCCGCG
5701 GTCCTCCTCG TATAGAAACT CCGACCACTC TGAGACAAAG GCTCGCGTCC AGGCCAGCAC
5761 GAAGGAGGCT AAGTGGGAGG GGTAGCGGTC GTTGTCCACT AGGGGGTCCA CTCGCTCCAG
5821 GGTGTGAAGA CACATGTCGC CCTCTTCGGC ATCAAGGAAG GTGATTGGTT TGTAGGTGTA

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5881	GGCCACGTGA	CCGGGTGTTT	CTGAAGGGGG	GCTATAAAAG	GGGGTGGGGG	CGCGTTCGTC
5941	CTCACTCTCT	TCCGCATCGC	TGTCTGCGAG	GGCCAGCTGT	TGGGGTGAGT	ACTCCCTCTG
6001	AAAAGCGGGC	ATGACTTCTG	CGCTAAGATT	GTCAGTTTCC	AAAAACGAGG	AGGATTTGAT
6061	ATTACCTTGG	CCCGCGGTGA	TGCCTTTGAG	GGTGCCGCA	TCCATCTGGT	CAGAAAAGAC
6121	AATCTTTTTT	TTGTCAAGCT	TGGTGGCAAA	CGACCCGTAG	AGGGCGTTGG	ACAGCAACTT
6181	GGCGATGGAG	CGCAGGGTTT	GGTTTTTGTC	GCGATCGGCG	CGCTCCTTGG	CCGCGATGTT
6241	TAGCTGCACG	TATTCGCGCG	CAACGCACCG	CCATTCCGGA	AAGACGGTGG	TGCGCTCGTC
6301	GGGACCCAGG	TGCACGCGCC	AACCGCGGTT	GTGCAGGGTG	ACAAGGTCAA	CGCTGGTGCG
6361	TACCTCTCCG	CGTAGGCGCT	CGTTGGTCCA	GCAGAGGCGG	CCGCCCTTGC	GCGAGCAGAA
6421	TGGCGGTAGG	GGGTCTAGCT	GCGTCTCGTC	CGGGGGGTCT	GCGTCCACGG	TAAAGACCCC
6481	GGGCAGCAGG	CGCGCGTCTG	AGTAGTCTAT	CTTGCACTCT	TGCAAGTCTA	GCGCCTGCTG
6541	CCATGCGCGG	GCGGCAAGCG	CGCGCTCGTA	TGGGTTGAGT	GGGGGACCCC	ATGGCATGGG
6601	GTGGGTGAGC	GCGGAGGCGT	ACATGCCGCA	AATGTCGTAA	ACGTAGAGGG	GCTCTCTGAG
6661	TATTCCAAGA	TATGTAGGGT	AGCATCTTCC	ACCGCGGATG	CTGGCGCGCA	CGTAATCGTA
6721	TAGTTCTGTG	GAGGAGCGCA	GGAGGTCGGG	ACCGAGGTTG	CTACGGGCGG	GCTGCTTCTG
6781	TCCGGAAGACT	ATCTGCCCTGA	AGATGGCATG	TGAGTTGGAT	GATATGGTTG	GACGCTGGAA
6841	GACGTTGAAG	CTGGCGTCTG	TGAGACCTAC	CGCGTCAACG	ACGAAGGAGG	CGTAGGAGTC
6901	GCGCAGCTTG	TTGACCAGCT	CGGCGGTGAC	CTGCACGTCT	AGGGCGCAGT	AGTCCAGGGT
6961	TTCCTTGATG	ATGTCATACT	TATCCTGTCC	CTTTTTTTTC	CACAGCTCGC	GGTTGAGGAC
7021	AAACTCTTCG	CGGTCTTTTC	AGTACTCTTG	GATCGGAAAC	CCGTGCGCCT	CCGAACGGTA
7081	AGAGCCTAGC	ATGTAGAAGT	GAGTACCGCG	CTGGTAGGCG	CAGCATCCCT	TTTCTACGGG
7141	TAGCGCGTAT	GCCTGCGCGG	CCTTCCGGAG	CGAGGTGTGG	GTGAGCGCAA	AGGTGTCCCT
7201	GACCATGACT	TTTAGGTAAGT	GGTATTTGAA	GTCAGTGTCT	TGCGATCCCG	CCTGCTCCCA
7261	GAGCAAAAAG	TCCGTGCGCT	TTTTGGAACG	CGGATTTGGC	AGGGCGAAGG	TGACATCGTT
7321	GAAGAGTATC	TTTCCCGCGC	GAGGCATAAA	GTTCGCTGTG	ATGCGGAAGG	GTCCCGGCAC
7381	CTCGGAACGG	TTGTTAATTA	CCTGGGCGGC	GAGCACGATC	TCGTCAAAGC	CGTTGATGTT
7441	GTGGCCACAC	ATGTAAAGTT	CCAAGAAGCG	CGGGATGCCC	TTGATGGAAG	GCAATTTTTT
7501	AAGTTCCTCG	TAGGTGAGCT	CTTCAGGGGA	GCTGAGCCCG	TGCTCTGAAA	GGGCCCAGTC
7561	TGCAAGATGA	GGGTGGAAG	CGACGAATGA	GCTCCACAGG	TCACGGGCCA	TTAGCATTTG
7621	CAGGTGGTCA	CGAAAGGTTCC	TAAACTGGCG	ACCTATGGCC	ATTTTTTCTG	GGGTGATGCA
7681	GTAGAAGTGA	AGCGGGTCTT	GTTCCCAGCG	GTCCCATCCA	AGGTTCGCGG	TAGGTTCTCG
7741	CGCGGCAGTC	ACTAGAGGCT	CATCTCCGCC	GAACCTCATG	ACCAGCATGA	AGGGCACGAG
7801	CTGCTTCCCA	AAGGCCCCCA	TCCAAGTATA	GGTCTCTACA	TCGTAGGTGA	CAAAGAGACG
7861	CTCGGTGCGA	GGATGCGAGC	CGATCGGGAA	GAACCTGATC	TCCCGCCACC	AATTGGAGGA
7921	GTGGCTATTG	ATGTGGTGAA	AGTAGAAGTC	CCTGCGACGG	GCCGAACACT	CGTGCTGGCT
7981	TTTGTA AAAA	CGTGCGCAGT	ACTGGCAGCG	GTGCACGGGC	TGTACATCCT	GCACGAGGTT
8041	GACCTGACGA	CCGCGCACAA	GGAAGCAGAG	TGGGAATTTG	AGCCCTTCGC	CTGGCGGGTT
8101	TGGCTGGTGG	TCTTCTACTT	CGGCTGCTTG	TCCTTGACCG	TCTGGCTGCT	CGAGGGGAGT
8161	TACGGTGATG	CGGACCACCA	CGCCGCGCGA	GCCCAAAGTC	CAGATGTCCG	CGCGCGGGCG
8221	TCGGAGCTTG	ATGACAACAT	CGCGCAGATG	GGAGCTGTCC	ATGGTCTGGA	GCTCCCGCGG
8281	CGTCAGGTCA	GGCGGGAGCT	CCTGCAGGTT	TACCTCGCAT	AGACGGGTCA	GGGCGCGGGC
8341	TAGATCCAGG	TGATACCTAA	TTTCCAGGGG	CTGGTTGGTG	CGGGCGTCGA	TGGCTTGCAA
8401	GAGGCCGCAT	CCCCGCGGCG	CGACTACGGT	ACCGCGCGGC	GGGCGGTGGG	CCGCGGGGGT
8461	GTCCTTGATG	GATGCATCTA	AAAGCGGTGA	CGCGGGCGAG	CCCCCGGAGG	TAGGGGGGGC
8521	TCCGGACCCG	CCGGGAGAGG	GGGCAGGGGC	ACGTCGGCGC	CGCGCGCGGG	CAGGAGCTGG
8581	TGCTGCGCGT	TGAGGTTGCT	GGCGAACGCG	ACGACGCGGC	GGTTGATCTC	CTGAATCTGG
8641	CGCCTCTGCG	TGAAGACGAC	GGGCCCCGGT	AGCTTGAGCC	TGAAAGAGAG	TTCGACAGAA
8701	TCAATTTTCG	TGTCGTTGAC	GGCGGCCCTG	CGCAAAATCT	CCTGCACGTC	TCCTGAGTTG
8761	TCTTGATAGG	CGATCTCGGC	CATGAAGTGC	TCGATCTCTT	CCTCCTGGAG	ATCTCCGCGT
8821	CCGGCTCGCT	CCACGGTGGC	GGCGAGGTGG	TTGGAAATGC	GGCCATGAG	CTGCGAGAAG
8881	GCGTTGAGGC	CTCCCTCGTT	CCAGACGCGG	CTGTAGACCA	CGCCCCCTTC	GGCATCGCGG
8941	GCGCGCATGA	CCACCTGCGC	GAGATTGAGC	TCCACGTGCC	GGGCGAAGAC	GGCGTAGTTT
9001	CGCAGGCGCT	GAAAGAGGTA	GTTGAGGGTG	GTGGCGGTGT	GTTCTGCCAC	GAAGAAGTAC
9061	ATAACCCAGC	GTCGCAACGT	GGATTCGTTG	ATATCCCCCA	AGGCCTCAAG	GCGCTCCATG
9121	GCCTCGTAGA	AGTCCACGGC	GAAGTTGAAA			

9301 TCTGGCGGCG GTGGGGGAGG GGGGACACGG CGGCGACGAC GGCGCACCGG GAGGCGGTCC
9361 ACAAAGCGCT CGATCATCTC CCCGCGGCGA CGGCGCATGG TCTCGGTGAC GGCGCGGCCG
9421 TTCTCGCGGG GCGCGAGTTG GAAGACGCCG CCCGTCATGT CCCGGTTATG GGTTGGCGGG
9481 GGGCTGCCAT GCGGCAGGGA TACGGCGCTA ACGATGCATC TCAACAATTG TTGTGTAGGT
9541 ACTCCGCCGC CGAGGGACCT GAGCGAGTCC GCATCGACCG GATCGGAAAA CCTCTCGAGA
9601 AAGGCGTCTA ACCAGTCACA GTCGCAAGGT AGGCTGAGCA CCGTGGCGGG CGGCAGCGGG
9661 CGGCGGTCCG GGTGTGTTCT GGCGGAGGTG CTGCTGATGA TGTAATTAAA GTAGGCGGTC
9721 TTGAGACGGC GGATGGTCGA CAGAAGCACC ATGTCCTTGG GTCCGGCCTG CTGAATGCGC
9781 AGGCGGTCCG CCATGCCCCA GGCTTCGTTT TGACATCGGC GCAGGTCTTT GTAGTAGTCT
9841 TGCATGAGCC TTTCTACCGG CACTTCTTCT TCTCCTTCCT CTTGTCCTGC ATCTCTTGCA
9901 TCTATCGCTG CGGCGGCGGC GGAGTTTGGC CGTAGGTGGC GCCCTCTTCC TCCCATGCGT
9961 GTGACCCCGA AGCCCCCTCAT CGGCTGAAGC AGGGCTAGGT CGGCACAAC GCGCTCGGCT
10021 AATATGGCCT GCTGCACCTG CGTGAGGGTA GACTGGAAGT CATCCATGTC CACAAAGCGG
10081 TGGTATGCGC CCGTGTGAT GGTGTAAGTG CAGTTGGCCA TAACGAGCA GTTAACGGTC
10141 TGGTGACCCG GCTGCGAGAG CTCGGGTGAC CTGAGACGCG AGTAAGCCCT CGAGTCAAAT
10201 ACGTAGTCGT TGCAAGTCCG CACCAGGTAC TGGTATCCCA CCAAAAAGTG CGGCGGCGGC
10261 TGGCGGTAGA GGGGCCAGCG TAGGGTGGCC GGGGCTCCGG GGGCGAGATC TTCCAACATA
10321 AGGCGATGAT ATCCGTAGAT GTACCTGGAC ATCCAGGTGA TGCCGGCGGC GGTGGTGGAG
10381 GCGCGCGGAA AGTCGCGGAC GCGGTTCCAG ATGTTGCGCA GCGGCAAAAA GTGCTCCATG
10441 GTCGGGACGC TCTGGCCGGT CAGGCGCGCG CAATCGTTGA CGCTCTAGCG TGCAAAAGGA
10501 GAGCCTGTAA GCGGGCACTC TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GTATCATGGC
10561 GGACGACCGG GGTTCGAGCC CCGTATCCCG CCGTCCGCGG TGATCCATGC GGTACC GCC
10621 CGCGTGTGTA ACCCAGGTGT GCGACGTCAG ACAACGGGGG AGTGCTCCTT TTGGCTTCCT
10681 TCCAGGCGCG GCGGCTGCTG CGCTAGCTTT TTTGGCCACT GTCGCTCCCT GTAGCCGGAG GGTATTTC
10741 GTTAGGCTGG AAAGCGAAAG CATTAAAGTG AGTCTCGGAC CGGCCGACT GCGCGAAGC
10801 CAAGGGTTGA GTCGCGGGAC CCCCAGTTCC GCTTGCAAT TCCTCCGGA ACAGGGACGA
10861 GGGGTTTGCC TCCCCGTCAT GCTTTTCCC AGATGCATCC GGTGCTGCGG CAGATGCGCC CCCCTCCTCA
10921 GCCCCTTTTT TGCTTTTCCC AGCGGCAGAC ATGCAGGGCA CCCTCCCCTC CACTACC CG
10981 GCAGCGGCAA GAGCAAGAGC AGCGGCAGAC GGCAGCAGAT GGTGATTACG AACCCCGCG
11041 GTCAGGAGGG GCGACATCCG CGGTTGACGC GGCAGGCGAG GGCCTGGCGG GGCTAGGAGC
11101 GCGCCGGGCC CCGCACTACC TGGACTTGA GGAGGGCGAG GATACGCGTG AGGCGTACGT
11161 GCCCTCTCCT GAGCGGTACC CAAGGGTGCA GCTGAAGCGT GGGAGAGGAG CCCGAGGAGA TGCGGGATCG
11221 GCGCGGCGAG AACCTGTTTC GCGACCGCGA AGCTGCGGCA TGGCCTGAAT CGCGAGCGGT TGCTGCGCGA
11281 AAAGTTCCAC GCAGGGCGCG AGCTGCGGCA GATTAGTCCC GCGCGCGCAC ACGTGGCGGC
11341 GGAGGACTTT GAGCCCGACG CGGAACCGG GATTAGTCCC GAGATTAAC TTCAAAAAAG
11401 CGCCGACCTG GTAACCGCAT ACGAGCAGAC GGTGAACAG GGTGGCTATAG GACTGATGA
11461 CTTTAACAA CACGTGCGTA CGCTTGAGCA AAACCCAAAT AGCAAGCCGC TCATGGCGCA
11521 TCTGTGGGAC TTTGTAAGCG CGCTGGAGCA CAACGAGGCA TTCAGGGATG CGCTGCTAAA
11581 GCTGTTCCCT ATAGTGCAGC ACAGCAGGGA CGATTTGATA AACATCCTGC AGAGCATAGT
11641 CATAGTAGAG CCCGAGGGCC GCTGGCTGCT CAAGGTGGCC GCCATCAACT ATTCCATGCT
11701 GGTGCAGGAG CGCAGCTTGA GCCTGGCTGA ATACCATAAC CTTTACGTTT CCATAGACAA
11761 TAGCCTGGGC AAGTTTTACG CCCGCAAGAT ATACCATAAC CTTTACGTTT CCTTGAGCGA
11821 GGAGGTAAAG ATCGAGGGGT TCTACATGCG CATGGCGCTG AAGGTGCTTA CCTTGAGCGA
11881 CGACCTGGGC GTTTATCGCA ACGAGCGCAT CCACAAGGCC GTGAGCGTGA GCCGGCGGCG
11941 CGAGCTCAGC GACCGCGAGC TGATGCACAG CCTGCAAAGG GCCCTGGCTG GCACGGGCAG
12001 CGGCGATAGA GAGGCCGAGT CCTACTTTGA CGCGGGCGCT GACCTGCGCT GGGCCCCAAG
12061 CCGACGCGCC CTGGAGGCAG CTGGGGCCGG ACCTGGGCTG GCGGTGGCAC CCGCGCGCGC
12121 TGGCAACGTC GGCGGCGTGG AGGAATATGA CGAGGACGAT GAGTACGAGC CAGAGGACGG
12181 CGAGTACTAA GCGGTGATGT TTCTGATCAG ATGATGCAAG ACGCAACGGA CCCGGCGGTG
12241 CGGGCGGCGC TGCAGAGCCA GCCGTCCGGC CTTAACTCCA CGGACGACTG GCGCCAGGTC
12301 ATGGACCGCA TCATGTCGCT GACTGCGCGC AATCCTGACG CGTTCGGCA GCAGCCGCGA
12361 GCCAACCAGC TCTCCGCAAT TCTGGAAGCG GTGGTCCCGG CGCGCGCAAA CCCACGCGAC
12421 GAGAAAGTGC TGGCGATCGT AAACGCGCTG GCCGAAAACA GGGCCATCCG CCCCAGCGAG
12481 GCCGCGCTGG TCTACGACGC GCTGCTTCAG CGCGTGGCTC GTTACAACAG CGGCAACGTC
12541 CAGACCAACC TGGACCGGCT GGTGGGGGAT GTGCGCGAGG CCGTGGCGCA GCGTGAGCGC
12601 GCGCAGCAGC AGGGCAACCT GGGCTCCATG GTTGCACTAA ACGCCTTCCT GAGTACACAG
12661 CCCGCCAAGC TGCCGCGGGG ACAGGAGGAC TACACCAACT TTGTGAGCGC ACTGCGGCTA

FIGURE 22
(SHEET 4)

12721 ATGGTGACTG AGACACCGCA AAGTGAGGTG TACCAGTCTG GGCCAGACTA TTTTTCAG
12781 ACCAGTAGAC AAGGCCTGCA GACCGTAAAC CTGAGCCAGG CTTTCAAAAA CTTGCAGGGG
12841 CTGTGGGGGG TGCGGGCTCC CACAGGCGAC CGCGCGACCG TGTCTAGCTT GCTGACGCCC
12901 AACTCGCGCC TGTGTCTGCT GCTAATAGCG CCCTTCACGG ACAGTGGCAG CGTGTCCTCG
12961 GACACATACC TAGGTCACTT GCTGACACTG TACCGCGAGG CCATAGGTCA GGCGCATGTG
13021 GACGAGCATA CTTTCCAGGA GATTACAAGT GTCAGCCGCG CGCTGGGGCA GGAGGACACG
13081 GGCAGCCTGG AGGCAACCCT AAACCTACCTG CTGACCAACC GGCGGCAGAA GATCCCCCTG
13141 TTGCACAGTT TAAACAGCGA GGAGGAGCGC ATTTTGCGCT ACGTGCAGCA GAGCGTGAGC
13201 CTTAACCTGA TGCGCGACGG GGTAACGCC AGCGTGCGCG TGGACATGAC CGCGCGCAAC
13261 ATGGAACCGG GCATGTATGC CTCAAACCGG CCGTTTATCA ACCGCTAAT GGACTACTTG
13321 CATCGCGCGG CCGCCGTGAA CCCCAGTAT TTCACCAATG CCATCTTGAA CCCGCACTGG
13381 CTACCGCCCC CTGGTTTCTA CACCGGGGGA TTCGAGGTGC CCGAGGGTAA CGATGGATTG
13441 CTCTGGGACG ACATAGACGA CAGCGTGTTC TCCCCGCAAC CGCAGACCCT GCTAGAGTTG
13501 CAACAGCGCG AGCAGGCAGA GGCGGCGCTG CGAAAGGAAA GCTTCCGCGA GCCAAGCAGC
13561 TTGTCCGATC TAGGCGCTGC GGCCCCGCGG TCAGATGCTA GTAGCCCAT TCCAAGCTTG
13621 ATAGGGTCTC TTACCAGCAC TCGCACCACC CGCCCCGCGC TGCTGGGCGA GGAGGAGTAC
13681 CTAAACAACCT CGCTGCTGCA GCCGAGCGCG GAAAAAAACC TGCCTCCGGC ATTTCCCAAC
13741 AACGGGATAG AGAGCCTAGT GGACAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13801 AGGGACCTGC CAGGCCCCGCG CCGCCACACC CGTCGTCAA GGCACGACCG TCAGCGGGGT
13861 CTGGTGTGGG AGGACGATGA CTCGGCAGAC GACAGCAGCG TCCTGGATTG GGGAGGGAGT
13921 GGCAACCCGT TTGCGCACCT TCGCCCCAGG CTGGGGAGAA TGTTTTAAAA AAAAAAAGC
13981 ATGATGCAAA ATAAAAAACC CACCAAGGCC ATGGCACCAG CCGTTGGTTT TCTTGATTG
14041 CCCTTAGTAT GCGGCGCGCG GCGATGTATG AGGAAGTTC CTTCGATGCT CCCCTGGACC
14101 TGGTGAGCGC GGCGCCAGTG GCGGCGGCGC TGGGTTCTCC CTTGATGCT CCCCTGGACC
14161 CGCCGTTTGT GCCTCCGCGG TACCTGCGCG GTGTGTACCT GGTGGACAAC AAGTCAACGG
14221 CTGAGTTGGC ACCCCTATTC GACACCACCC ACAGCAACTT TCTGACCAG GTCAATCAAA
14281 ATGTGGCATC CCTGAACCTC CAGAACGACC CACAGACCAT CAATCTTGAC GACCGTTCG
14341 ACAATGACTA CAGCCCGGGG GAGGCAAGCA CACAGACCAT GCGCAATGTG AACGAGTTCA
14401 ACTGGGGCGG CGACCTGAAA ACCATCCTGC ATACCAACAT GCGGTCGCG CTTGCTACT AAGGACAATC
14461 TGTTTACCAA TAAGTTAAG GCGCGGGTGA TGGTGTGCG CGAGGGCAAC TACTCCGAGA
14521 AGGTGGAGCT GAAATACGAG TGGGTGGAGT TCACGCTGCC CGAGGGCAAC TACTCCGAGA
14581 CCATGACCAT AGACCTTATG AACAACGCGA TAAAGTTTGA CACCCGCAAC TTCAGACTGG
14641 AGAACGGGGT TCTGAAAAGC GACATCGGGG TAAAGTTTGA CACCCGCAAC TTCAGACTGG
14701 GGTGTTGACCC CGTCACTGGT CTTGTATGCT CTGGGGTATA TACAAACGAA GCCTTCCATC
14761 CAGACATCAT TTTGCTGCCA GGATGCGGGG TGGACTTCAC CCACAGCCCG CTGAGCAACT
14821 TGTGCGCAT CCGCAAGCGG CAACCCCTTC AGGAGGGCTT TAGGATCACC TACGATGATC
14881 TGGAGGGTGG TAACATTCCC GCACTGTTGG ATGTGGACGC CTACCAGGCG AGCTTGAAAG
14941 ATGACACCGA ACAGGGCGGG GGTGGCGCAG GCGGCAGCAA TGACGCCGGT GGAGGACATG AACGATCATG
15001 AAGAGAACTC CAACGCGGCA GCCGCGGCAA TCGAGGAGAA GCGCGCTGAG GCCGAAGCAG
15061 CCATTCGCGG CGACACCTTT GCCACACGGG CTGAGGAGAA GAAGCCTCAG AAGAAACCGG
15121 CGGCCGAAGC TGCCGCCCCC GCTGCGCAAC CCGAGGTCGA GAAGCCTCAG AAGAAACCGG
15181 TGATCAAACC CCTGACAGAG GACAGCAAGA AACGCAGTTA CAACCTAATA AGCAATGACA
15241 GCACCTTCAC CCACTACCGC AGCTGGTACC TTGCATACAA CTACGGCGAC CCTCAGACCG
15301 GAATCCGCTC ATGGACCCTG CTTTGCATC CTGACGTAAC CTGCGGCTCG GAGCAGGTCT
15361 ACTGGTCGTT GCCAGACATG ATGCAAGACC CCGTGACCTT CCGCTCCACG CGCCAGATCA
15421 GCAACTTTCC GGTGGTGGGC GCCGAGCTGT TGCCCGTGCA CTCCAAGAGC TTCTACAACG
15481 ACCAGGCCGT CTACTCCCAA CTCATCCGCC AGTTTACCTC TCTGACCCAC GTGTTCAATC
15541 GCTTTCCCGA GAACCAGATT TTGGCGCGCC CGCCAGCCCC CACCATCACC ACCGTCAGTG
15601 AAAACGTTCC TGCTCTCACA GATCACGGGA CGCTACCGCT GCGCAACAGC ATCGGAGGAG
15661 TCCAGCGAGT GACCATTAAT GACGCCAGAC GCCGCACCTG CCCCTACGTT TACAAGGCC
15721 TGGGCATAGT CTCGCCGCGC GTCCTATCGA GCCGCACTTT TTGAGCAAGC ATGTTTGGCG
15781 TTATATCGCC CAGCAATAAC ACAGGCTGGG GCCTGCGCTT CCGGCACTAC CGCGCGCCCT
15841 GGGCCAAGAA GCGCTCCGAC CAACACCCAG TGCGCGTGCG CCGGCACTAC CGCGCGCCCT
15901 GGGGCGCGCA CAAACGCGCG CGCACTGGGC GACACCAGT CGATGACGCC ATCGACGCGG
15961 TGGTGGAGGA GGCGCGCAAC TACAGCCCA CGCCGCCACC AGTGTCCACA GTGGACGCGG
16021 CCATTCAGAC CGTGGTGGCG GGAGCCCCG GCTATGCTAA AATGAAGAGA CGCGCGGAGC
16081 GCGTAGCAGC TCGCCACCGC CGCCGACCCG GCACTGCCCG CCAACGCGCG GCGCGGGCCG

FIGURE 22
(SHEET 5)

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16141	TGCTTAACCG	CGCACGTGCG	ACCGGCCGAC	GGGCGGCCAT	GCGGGCCGCT	CGAAGGCTGG
16201	CCGCGGGTAT	TGTCACGTG	CCCCCAGGT	CCAGGCGACG	AGCGGCCGCC	GCAGCAGCCG
16261	CGGCCATTAG	TGCTATGACT	CAGGGTCGCA	GGGGCAACGT	GTATTGGGTG	CGCGACTCGG
16321	TTAGCGGCCT	GCGCGTGCCC	GTGCGCACCC	GCCCCCGCG	CAACTAGATT	GCAAGAAAAA
16381	ACTACTTAGA	CTCGTACTGT	TGTATGTATC	CAGCGGCGGC	GGCGCGCAAC	GAAGCTATGT
16441	CCAAGCGCAA	AATCAAAGAA	GAGATGCTCC	AGGTCATCGC	GCCGCGAGATC	TATGGCCCCC
16501	CGAAGAAGGA	AGAGCAGGAT	TACAAGCCCC	GAAAGCTAAA	GCGGGTCAAA	AAGAAAAAGA
16561	AAGATGATGA	TGATGAACTT	GACGACGAGG	TGGAACGTCT	GCACGCTACC	GCGCCAGGCG
16621	GACGGGTACA	GTGGAAAGGT	CGACGCGTAA	AACGTGTTTT	GCGACCCGGC	ACCACCGTAG
16681	TCCTTACGCC	CGGTGAGCGC	TCCACCCGCA	CCTACAAGCG	CGTGTATGAT	GAGGTGTACG
16741	GCGACGAGGA	CCTGCTTGAG	CAGGCCAACG	AGCGCCTCGG	GGAGTTTGCC	TACGGAAAGC
16801	GGCATAAGGA	CATGCTGGCG	TTGCCGCTGG	ACGAGGGCAA	CCCAACACCT	AGCCTAAAGC
16861	CCGTAACACT	GCAGCAGGTG	CTGCCCGCGC	TTGCACCGTC	CGAAGAAAAA	CGCGGCCTAA
16921	AGCGCGAGTC	TGGTGACTTG	GCACCCACCG	TGCAGCTGAT	GGTACCCAA	CGCCAGCGAC
16981	TGGAAGATGT	CTTGGAAGAA	ATGACCGTGG	AACCTGGGCT	GGAGCCCGAG	GTCCGCGTGC
17041	GGCCAATCAA	GCAGGTGGCG	CCGGGACTGG	GCGTGCAGAC	CGTGGACGTT	CAGATACCCA
17101	CTACCACTAG	CACCACTATT	GCCACCGCCA	CAGAGGGCAT	GGAGACACAA	ACGTCCCCGG
17161	TTGCTCTAGC	GGTGGCGGAT	GCCGCGGTGC	AGGCGGTGCG	TGCGGCCGCG	TCCAAGACCT
17221	CTACGGAGGT	GCAAACGGAC	CCGTGGATGT	TTGCGGTTTC	AGCCCCCGCG	CGCCCCGCGG
17281	GTTTCGAGGA	GTACGGCGCC	GCCAGCGCGC	TACTGCCCCG	ATATGCCCTA	CATCCTTCCA
17341	TTGCGCCTAC	CCCCGGCTAT	CGTGGCTACA	CCTACCGCCC	CAGAAGACGA	GCAACTACCC
17401	GACGCCGAAC	CACCACTGGA	ACCCGCGGCC	GCCGTCGCGG	TGCGCCAGCC	GTGCTGGCCC
17461	CGATTTCCGT	GCGCAGGGTG	GCTCGCGAAG	GAGGCAGGAC	CCTGGTGCTG	CCAACAGCGC
17521	GCTACACCC	CAGCATCGTT	TAAAGCCGG	TCCTTGTGGT	TCTTGACAGT	ATGGCCCTCA
17581	CTGCGCGCT	CCGTTTCCCG	GTGCCGGGAT	TCCGAGGAAG	AATGCACCGT	AGGAGGGGCA
17641	TGGCCGGCCA	CGGCCTGACG	GGCGGCATGC	GTCGTGCGCA	CCACCGCGCG	CGGCGCGCGT
17701	CGCACCGTCG	CATGCGCGCG	GGTATCCTGC	CCCTCCTTAT	TCCACTGATC	GCCGCGCGCA
17761	TTGGCGCCGT	GCCCCGAATT	GCATCCGTGG	CCTTGACGGC	GCAGAGACAC	TGATTAAGAA
17821	CAAGTTGCAT	GTGGAAGAA	CAAAATAAAA	AGTCTGGACT	CTCACGCTCG	CTTGGTCCTG
17881	TAACATATTT	GTAGAATGGA	AGACATCAAC	TTTGCCTCTC	TGGCCCCGCG	ACACGGCTCG
17941	CGCCCCGTTCA	TGGGAAACTG	GCAAGATATC	GGCACCAGCA	ATATGAGCGG	TGGCGCCTTC
18001	AGCTGGGGCT	CGCTGTGGAG	CGGCATTAA	AATTTGCGTT	CCACCGTTAA	GAACATATGG
18061	AGCAAGGCCT	GGAACAGCAG	CACAGGCCAG	ATGCTGAGGG	ATAAGTTGAA	AGAGCAAAAT
18121	TTCCAACAAA	AGGTGGTAGA	TGGCCTGGCC	TCTGGCATT	GCGGGGTGGT	GGACCTGGCC
18181	AACCAGGCAG	TGCAAAATAA	GATTAACAGT	AAGCTTGATC	CCCGCCCTCC	CGTAGAGGAG
18241	CCTCCACCGG	CCGTGGAGAC	AGTGTCTCCA	GAGGGGCGTG	GCGAAAAGCG	TCCGCGCCCC
18301	GACAGGGAAG	AAACTCTGGT	GACGCAATA	GACGAGCCTC	CCTCGTACGA	GGAGGCACTA
18361	AAGCAAGGCC	TGCCCCACC	CCGTCCCATC	GCGCCCCATG	CTACCGGAGT	GCTGGGCCAG
18421	CACACACCCG	TAACGCTGGA	CCTGCCTCCC	CCCGCCGACA	CCCAGCAGAA	ACCTGTGCTG
18481	CCAGGCCCGA	CCGCCGTTGT	TGTAACCCGT	CCTAGCCGCG	CGTCCCTGCG	CCGCGCCGCC
18541	AGCGGTCCGC	GATCGTTGCG	GCCCCGTAGC	AGTGGCAACT	GGCAAAGCAC	ACTGAACAGC
18601	ATCGTGGGTC	TGGGGGTGCA	ATCCCTGAAG	CGCCGACGAT	GCTTCTGAAT	AGCTAACGTG
18661	TCGTATGTGT	GTCAATGTATG	CGTCCATGTC	GCCGCCAGAG	GAGCTGCTGA	GCCGCCGCGC
18721	GCCCCGCTTC	CAAGATGGCT	ACCCCTTCGA	TGATGCCGCA	GTGGTCTTAC	ATGCACATCT
18781	CGGGCCAGGA	CGCCTCGGAG	TACCTGAGCC	CCGGGCTGGT	GCAGTTTGCC	CGCGCCACCG
18841	AGACGTACTT	CAGCCTGAAT	AACAAGTTTA	GAAACCCAC	GGTGGCGCCT	ACGCACGACG
18901	TGACCACAGA	CCGGTCCCG	CGTTTGACGC	TGCGGTTTAT	CCCTGTGGAC	CGTGAGGATA
18961	CTGCGTACTC	GTACAAGGCG	CGGTTTACCC	TAGCTGTGGG	TGATAACCGT	GTGCTGGACA
19021	TGGCTTCCAC	GTACTTTGAC	ATCCGCGGCG	TGCTGGACAG	GGGCCCTACT	TTTAAGCCCT
19081	ACTCTGGCAC	TGCCTACAAC	GCCCTGGCTC	CCAAGGGTGC	CCCAAATCCT	TGCGAATGGG
19141	ATGAAGCTGC	TACTGCTCTT	GAAATAAACC	TAGAAGAAGA	GGACGATGAC	AACGAAGACG
19201	AAGTAGACGA	GCAAGCTGAG	CAGCAAAAAA	CTCACGTATT	TGGGCAGGCG	CCTTATTCTG
19261	GTATAAATAT	TACAAAGGAG	GGTATTCAAA	TAGGTGTCGA	AGGTCAAACA	CCTAAATATG
19321	CCGATAAAAC	ATTTCAACCT	GAACCTCAAA	TAGGAGAATC	TCAGTGGTAC	GAAACTGAAA
19381	TTAATCATGC	AGCTGGGAGA	GTCCTTAAAA	AGACTACCCC	AATGAAACCA	TGTTACGGTT
19441	CATATGCAAA	ACCCACAAAT	GAAAATGGAG	GGCAAGGCAT	TCTTGTAAG	CAACAAAATG
19501	GAAAGCTAGA	AAGTCAAGTG	GAAATGCAAT	TTTTCTCAAC	TACTGAGGCG	ACCGCAGGCA

FIGURE 22
(SHEET 6)

19561	ATGGTGATAA	CTTGACTCCT	AAAGTGGTAT	TGTACAGTGA	AGATGTAGAT	ATAGAAACCC
19621	CAGACACTCA	TATTTCTTAC	ATGCCCCACTA	TTAAGGAAGG	TAACCTACGA	GAACATAATGG
19681	GCCAACAATC	TATGCCCAAC	AGGCCTAATT	ACATTGCTTT	TAGGGACAAT	TTTATTGGTC
19741	TAATGTATTA	CAACAGCACG	GGTAATATGG	GTGTTCTGGC	GGGCCAAGCA	TCGCAGTTGA
19801	ATGCTGTTGT	AGATTTGCAA	GACAGAAACA	CAGAGCTTTC	ATACCAGCTT	TTGCTTGATT
19861	CCATTGGTGA	TAGAACCAGG	TACTTTTCTA	TGTGGAATCA	GGCTGTTGAC	AGCTATGATC
19921	CAGATGTTAG	AATTATTGAA	AATCATGGAA	CTGAAGATGA	ACTTCCAAAT	TACTGCTTTC
19981	CACTGGGAGG	TGTGATTAAT	ACAGAGACTC	TTACCAAGGT	AAAACCTAAA	ACAGGTCAGG
20041	AAAATGGATG	GGAAAAAGAT	GCTACAGAAT	TTTCAGATAA	AAATGAAATA	AGAGTTGGAA
20101	ATAATTTTGC	CATGGAAATC	AATCTAAATG	CCAACCTGTG	GAGAAATTTT	CTGTACTCCA
20161	ACATAGCGCT	GTATTTGCCC	GACAAGCTAA	AGTACAGTCC	TTCCAACGTA	AAAATTTCTG
20221	ATAACCCAAA	CACCTACGAC	TACATGAACA	AGCGAGTGGT	GGCTCCCGGG	TTAGTGGACT
20281	GCTACATTAA	CCTTGAGGAC	CGCTGGTCCC	TTGACTATAT	GGACAACGTC	AACCCATTTA
20341	ACCACCACCG	CAATGCTGGC	CTGCGCTACC	GCTCAATGTT	GCTGGGCAAT	GGTCGCTATG
20401	TGCCCTTTCCA	CATCCAGGTG	CCTCAGAAGT	TCTTTGCCAT	TAAAAACCTC	CTTCTCCTGC
20461	CGGGCTCATA	CACCTACGAG	TGGAACCTCA	GGAAGGATGT	TAACATGGTT	CTGCAGAGCT
20521	CCCTAGGAAA	TGACCTAAGG	GTTGACGGAG	CCAGCATTA	GTTTGATAGC	ATTTGCCTTT
20581	ACGCCACCTT	CTTCCCCATG	GCCCACAACA	CCGCCTCCAC	GCTTGAGGCC	ATGCTTAGAA
20641	ACGACACCAA	CGACCAGTCC	TTTAACGACT	ATCTCTCCGC	CGCCAACATG	CTCTACCCTA
20701	TACCCGCCAA	CGCTACCAAC	GTGCCCATAT	CCATCCCCCTC	CCGCAACTGG	GCGGCTTTCC
20761	GCGGCTGGGC	CTTCACGCGC	CTTAAGACTA	AGGAAACCCC	ATCACTGGGC	TCGGGCTACG
20821	ACCCTTATTA	CACCTACTCT	GGCTCTATAC	CCTACCTAGA	TGGAACCTTT	TACCCTCAAC
20881	ACACCTTTAA	GAAGGTGGCC	ATTACCTTTG	ACTCTTCTGT	CAGCTGGCCT	GGCAATGACC
20941	GCCTGCTTAC	CCCCAACGAG	TTTGAAATTA	AGCGCTCAGT	TGACGGGGAG	GGTTACAACG
21001	TTGCCCATGT	TAACATGACC	AAAGACTGGT	TCCTGGTACA	AATGCTAGCT	AACTACAACA
21061	TTGGCTACCA	GGGCTTCTAT	ATCCCAGAGA	GCTACAAGGA	CCGCATGTAC	TCCTTCTTTA
21121	GAAACTTCCA	GCCCCATGAGC	CGTCAGGTGG	TGGATGATAC	TAAATACAAG	GACTACCAAC
21181	AGGTGGGCAT	CCTACACCAA	CACAACAAC	CTGGATTGT	TGGCTACCTT	GCCCCACCA
21241	TGCGCGAAGG	ACAGGCCCTAC	CCTGCTAACT	TCCCCATATC	GCTTATAGGC	AAGACCCGAG
21301	TTGACAGCAT	TACCCAGAAA	AAGTTTCTTT	GCGATCGCAC	CCTTTGGCGC	ATCCCCATCT
21361	CCAGTAACCT	TATGTCATG	GGCGCACTCA	CAGACCTGGG	CCAAAACCTT	CTCTACGCCA
21421	ACTCCGCCCC	CGCGCTAGAC	ATGACTTTTG	AGGTGGATCC	CATGGACGAG	CCCACCCCTC
21481	TTTATGTTTT	GTTTGAAGTC	TTTGACGTGG	TCCGTGTGCA	CCGGCCGCAC	CGCGCGCTCA
21541	TCGAAACCGT	GTACCTGCGC	ACGCCCTTCT	CGGCCGCGCA	CGCCACAACA	TAAAGAAGCA
21601	AGCAACATCA	ACAACAGCTG	CCGCCATGGG	CTCCAGTGAG	CAGGAAGTGA	AAGCCATTGT
21661	CAAAGATCTT	GGTTGTGGGG	CATATTTTTT	GGGCACCTAT	GACAAGCGCT	TTCCAGGCTT
21721	TGTTTCTCCA	CACAAGCTCG	CCTGCGCCAT	AGTCAATACG	GCCGGTCCGG	AGACTGGGGG
21781	CGTACACTGG	ATGGCCTTTG	CCTGGAACCC	GCACTCAAAA	ACATGCTACC	TCTTTGAGCC
21841	CTTTGGCTTT	TCTGACCAGC	GACTCAAGCA	GGTTTACCAG	TTTGAGTACG	AGTCACTCCT
21901	GCGCCGTAGC	GCCATTGCTT	CTTCCCCCGA	CCGCTGTATA	ACGCTGGAAA	AGTCCACCCA
21961	AAGCGTACAG	GGGCCCAACT	CGGCCGCGCT	TGGACTATT	TGCTGCATGT	TTCTCCACGC
22021	CTTTGCCAAC	TGGCCCCAAA	CTCCCCATGA	TCACAACCCC	ACCATGAACC	TTATTACCGG
22081	GGTACCCAAC	TCCATGCTCA	ACAGTCCCCA	GGTACAGCCC	ACCCTGCGTC	GCAACCAGGA
22141	ACAGCTCTAC	AGCTTCTCTG	AGCGCCACTC	GCCCTACTTC	CGCAGCCACA	GTGCGCAGAT
22201	TAGGAGCGCC	ACTTCTTTTT	GTCACCTGAA	AAACATGTAA	AAATAATGTA	CTAGAGACAC
22261	TTTCAATAAA	GGCAAATGCT	TTTATTTGTA	CACTCTCGGG	TGATTATTTA	CCCCACCCTT
22321	TGCCGTCTGC	GCCGTTTAAA	AATCAAAGGG	GTTCTGCCGC	GCATCGCTAT	GCGCCACTGG
22381	CAGGGACACG	TTGCGATACT	GGTGTTTAGT	GCTCCACTTA	AACTCAGGCA	CAACCATCCG
22441	CGGCAGCTCG	GTGAAGTTTT	CACTCCACAG	GCTGCGCACC	ATCACCACG	CGTTTAGCAG
22501	GTCGGGCGCC	GATATCTTGA	AGTCGCAATT	GGGGCCTCCG	CCCTGCGCGC	GCGAGTTGCG
22561	ATACACAGGG	TTGCAGCACT	GGAACAACAT	CAGCGCCGGG	TGGTGCACGC	TGGCCAGCAC
22621	GCTCTTGTCG	GAGATCAGAT	CCGCGTCCAG	GTCCTCCGCG	TTGCTCAGGG	CGAAGCGGAGT
22681	CAACTTTGGT	AGCTGCCTTC	CCAAAAAGGG	CGCGTGCCCA	GGCTTTGAGT	TGCACTCGCA
22741	CCGTAGTGGC	ATCAAAAGGT	GACCGTGCCC	GGTCTGGGCG	TTAGGATACA	GCGCCTGCAT
22801	AAAAGCCTTG	ATCTGCTTAA	AAGCCACCTG	AGCCTTTGCG	CCTTCAGAGA	AGAACATGCC

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22981 GCTAGACTGC TCCTTCAGCG CGCGCTGCCC GTTTTTCGCTC GTCACATCCA TTTCAATCAC
23041 GTGCTCCTTA TTTATCATAA TGCTTCCGTG TAGACACTTA AGCTCGCCTT CGATCTCAGC
23101 GCAGCGGTGC AGCCACAACG CGCAGCCCGT GGGCTCGTGA TGCTTGTAGG TCACCTCTGC
23161 AAACGACTGC AGGTACGCCT GCAGGAATCG CCCCATCATC GTCACAAAGG TCTTGTGCT
23221 GGTGAAGGTC AGCTGCAACC CGCGGTGCTC CTCGTTCAGC CAGGTCTTGC ATACGGCCGC
23281 CAGAGCTTCC ACTTGGTCAG GCAGTAGTTT GAAAGTTCGCC TTTAGATCGT TATCCACGTG
23341 GTACTTGTCC ATCAGCGCGC GCGCAGCCTC CATGCCCTTC TCCCACGCAG ACACGATCGG
23401 CACACTCAGC GGGTTCATCA CCGTAATTTT ACTTTCGGCT TCGCTGGGCT CTTCTCTTC
23461 CTCTTGCGTC CGCATACCAC GCGCCACTGG GTCGTCTTCA TTCAGCCGCC GCACTGTGCG
23521 CTTACCTCCT TTGCCATGCT TGATTAGCAC CCGTGGGTTG CTGAAACCCA CCATTTGTAG
23581 CGCCACATCT TCTCTTTCTT CCTCGCTGTC CACGATTACC TCTGGTGATG GCGGGCGCTC
23641 GGGCTTGGGA GAAGGGCGCT TCTTTTCTT CTTGGGCGCA ATGGCCAAAT CCGCCGCCGA
23701 GGTCGATGGC CGCGGGCTGG GTGTGCGCGG CACCAGCGCG TCTTGTGATG AGTCTTCTC
23761 GTCCTCGGAC TCGATACGCC GCCTCATCCG CTTTTTTGGG GGCGCCCGGG GAGGCGGCGG
23821 CGACGGGGAC GGGGACGACA CGTCTCCCAT GGTGCGGGA CGTCGCGCCG CACCGCGTCC
23881 GCGCTCGGGG GTGGTTTCGC GCTGCTCCTC TTCCCGACTG GCCATTTCTT TCTCTATAG
23941 GCAGAAAAAG ATCATGGAGT CAGTCGAGAA GAAGGACAGC CTAACCGCCC CCTCTGAGT
24001 CGCCACCACC GCCTCCACCG ATGCCGCCAA CGCGCCTACC ACCTTCCCCG TCGAGGCACC
24061 CCCGCTTGAG GAGGAGGAAG TGATTATCGA GCAGGACCCA GGTTTTGTA GCGAAGACGA
24121 CGAGGACCGC TCAGTACCAA CAGAGGATAA AAAGCAAGAC CAGGACAACG CAGAGCAAA
24181 CGAGGAACAA GTCGGGCGGG GGGACGAAAG GCATGGCGAC TACCTAGATG TGGGAGACGA
24241 CGTGCTGTTG AAGCATCTGC AGCGCCAGTG CGCCATTATC TGCGACGCGT TGCAAGAGCG
24301 CAGCGATGTG CCCCTCGCCA TAGCGGATGT CAGCCTTGCC TACGAACGCC ACCTATTCTC
24361 ACCGCGCGTA CCCCCCAAAC GCCAAGAAAA CCGCACATGC GAGCCCAACC CGCGCCTCAA
24421 CTTCTACCCC GTATTTGCCG TGCCAGAGGT GCTTGCCACC TATCAGATCT TTTTCCAAAA
24481 CTGCAAGATA CCCCTATCCT GCGGTGCCAA CCGCAGCCGA GCGGACAAGC AGCTGGCCTT
24541 GCGGAGGGG GCTGTCTATC CTGATATCGC CTCGCTCAAC GAAGTGCCAA AAATCTTTGA
24601 GGGTCTTGA CGCGACGAGA AGCGCGCGGC AAACGCTCTG CAACAGGAAA ACAGCGAAAA
24661 TGAAAGTCA TCTGGAGTGT TGGTGGAACT CGAGGGTGAC AACGCGCGCC TAGCCGTACT
24721 AAAACGCAGC ATCGAGGTCA CCCACTTTGC CTACCCGGCA CTTAACCTAC CCCCCAAGGT
24781 CATGAGCACA GTCATGAGTG AGCTGATCGT GCGCCGTGCG CAGCCCCTGG AGAGGGATGC
24841 AAATTTGCAA GAACAAACAG AGGAGGGCCT ACCCGCAGTT GGCGACGAGC AGCTAGCGCG
24901 CTGGCTTCAA ACGCGCGAGC CTGCCGACTT GGAGGAGCGA CGCAAATAA TGATGGCCCG
24961 AGTGCTCGTT ACCGTGGAGC TGCACTACAC CTTTCGACAG GGCTACGTAC GCGAGGCTG
25021 GCGCAAGCTA GAGGAAACAT TCTGCAACCT GGTCTCCTAC CTTGGAATTT TGCACGAAAA
25081 CAAGATCTCC AACGTGGAGC TTCATTCCAC GCTCAAGGGC GAGGCGCGCC GCGACTACGT
25141 CCGCCTTGGG CAAAACGTGC TTCTATGCTA CACCTGGCAG ACCGCCATGG GCGTTTGGCA
25201 CGCGCATGTC GTTTACTTAT TTCTATGCTA GCTGCAGAAA CTGCTAAAGC AAAACTTGAA
25261 GAGTGCTTGA GAGGAGTGCA ACCTCAAGGA CGTGGCCGCG CACCTGGCGG ACATCATTTT
25321 GGACCTATGG ACGGCCCTTCA ACGAGCGCTC GGGTCTGCCA GACTTCACCA GTCAAAGCAT
25381 CCCCGAACGC CTGCTTAAAA CCCTGCAACA GCGCTCAGGA ATCTTGCCCG CCACCTGCTG
25441 GTTGCAAGAC TTTAGGAACT TTATCCTAGA GCGCTCAGGA TGCCCTCCGC CGCTTTGGGG
25501 TGCACTTCCT AGCGACTTTG TGCCCATTA GGTACCGGAA TGGCTGACA TAATGGAAGA
25561 CCACTGCTAC CTTCTGCAGC TAGCCAACTA CTTGCTTAC CACTCTGACA CCCCACCG
25621 CGTGAGCGGT GACGGTCTAC TGGAGTGTCA CTGTCGCTGC AACCTATGCA CTTTGAGCT
25681 CTCCCTGGTT TGCAATTCGC AGCTGCTTAA CGAAAGTCAA ATTATCGGTA CTTTGGGCT
25741 GCAGGGTCCC TCGCCTGACG AAAAGTCCGC GGCTCCGGGG TTGAAACTCA CTCCGGGGCT
25801 GTGGACGTCG GCTTACCTTC GCAAATTTGT ACCTGAGGAC TACCACGCCC ACGAGATTAG
25861 GTTCTACGAA GACCAATCCC GCCCCCAA TGCGGAGCTT ACCGCTGCG TCATTACCCA
25921 GGGCCACATT CTTGGCCAAT TGCAAGCCAT CAACAAAGCC CGCCAAGAGT TTCTGCTACG
25981 AAAGGGACGG GGGGTTTACT TGGACCCCA GTCCGGCGAG GAGCTCAACC CAATCCCCC
26041 GCCGCCGAG CCCTATCAGC AGCAGCCGCG GGCCCTTGCT TCCCAGGATG GCACCCAAAA
26101 AGAAGCTGCA GCTGCCGCGG CCACCCACGG ACGAGGAGGA ATACTGGGAC AGTCAGGCAG
26161 AGGAGGTTTT GGACGAGGAG GAGGAGGACA TGATGGAAGA CTGGGAGAGC CTAGACGAGG
26221 AAGCTTCCGA GGTGCAAGAG GTGTGAGACG AAACACCGTC ACCCTCGGTC GCATTCCCCT
26281 CGCCGGCGCC CCAGAAATCG GCAACCGGTT CCAGCATGGC TACAACCTCC GCTCCTCAGG
26341 CGCCGCCGGC ACTGCCCCGT CGCCGACCCA ACCGTAGATG GGACACCACT GGAACCAGGG

FIGURE 22
(SHEET 8)

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26401 CCGGTAAGTC CAAGCAGCCG CCGCCGTTAG CCCAAGAGCA ACAACAGCGC CAAGGCTACC
26461 GCTCATGGCG CGGGCACAAAG AACGCCATAG TTGCTTGCTT GCAAGACTGT GGGGGCAACA
26521 TCTCCTTCGC CCGCCGCTTT CTTCTCTACC ATCACGGCGT GGCCTTCCCC CGTAACATCC
26581 TGCATTACTA CCGTCATCTC TACAGCCCAT ACTGCACCGG CGGCAGCGGC AGCGGCAGCA
26641 ACAGCAGCGG CCACACAGAA GCAAAGGCGA CCGGATAGCA AGACTCTGAC AAAGCCCAAG
26701 AAATCCACAG CGGCGGCAGC AGCAGGAGGA GGAGCGCTGC GTCTGGCGCC CAACGAACCC
26761 GTATCGACCC GCGAGCTTAG AAACAGGATT TTTCCCACTC TGTATGCTAT ATTTCAACAG
26821 AGCAGGGGCC AAGAACAAGA GCTGAAAATA AAAACAGGT CTCTGCGATC CCTCACCCGC
26881 AGCTGCCTGT ATCACAAAAG CGAAGATCAG CTTGCGCGCA CGCTGGAAGA CGCGGAGGCT
26941 CTCTTCAGTA AATACTGCGC GCTGACTCTT AAGGACTAGT TTCGCGCCCT TTCTCAAATT
27001 TAAGCGCGAA AACTACGTCA TCTCCAGCGG CCACACCCGG CGCCAGCACC TGTCGTCAGC
27061 GCCATTATGA GCAAGGAAAT TCCCACGCCC TACATGTGGA GTTACCAGCC ACAAATGGGA
27121 CTTGCGGCTG GAGCTGCCCA AGACTACTCA ACCCGAATAA ACTACATGAG CGCGGGACCC
27181 CACATGATAT CCCGGGTCAA CGGAATCCGC GCCCACCAGAA ACCGAATTCT CTTGGAACAG
27241 GCGGCTATTA CCACCACACC TCGTAATAAC CTTAATCCCC GTAGTTGGCC CGCTGCCCTG
27301 GTGTACCAGG AAAGTCCCGC TCCCACCACT GTGGTACTTC CCAGAGACGC CCAGGCCGAA
27361 GTTCAGATGA CTAACCTCAGG GGCGCAGCTT GCGGGCGGCT TTCGTACAG GGTGCGGTG
27421 CCCGGGCAGG GTATAACTCA CCTGACAATC AGAGGGCGAG GTATTACAGT CAACGACGAG
27481 TCGGTGAGCT CCTCGCTTGG TCTCCGTCCG GACGGGACAT TTCAGATCGG CGCGCCCGGC
27541 CGTCCTTCAT TCACGCCTCG TCAGGCAATC CTAACCTCTGC AGACCTCGTC CTCTGAGCCG
27601 CGCTCTGGAG GCATTGGAAC TCTGCAATTT ATTGAGGAGT TTGTGCCATC GGTCTACTTT
27661 AACCCCTTCT CGGGACCTCC CGGCCACTAT CCGGATCAAT TTATTCCCTAA CTTTGACGCG
27721 GTAAAAGTCA CGGCGGACGG CTACGACTGA TAATTAAGTG GAGAGGCAGA GAACTGCGC
27781 CTGAAACACC TGGTCCACTG TCGCCGCCAC AAGTGCTTTG CCCGCGACTC CGGTGAGTTT
27841 TGCTACTTTG AATTGCCCCG GGATCATATC GAGGATCTTT GGTGCCATCT CTGTGCTGAG
27901 TATAATAAAT ACAGAAATTA AAATATACTG GGGCTCCTAT CGCCATCCTG TAAACGCCAC
27961 CGTCTTCACC CGCCCAAGCA AACCAAGCGG AACCTTACCT GGTACTTTTA ACATCTCTCC
28021 CTCTGTGATT TACAACAGTT TCAACCCAGA CGGAGTGAGT CTACGAGAGA ACCTCTCCGA
28081 GCTCAGCTAC TCCATCAGAA AAAACACCAC CCTCCTTACC TGCCGGGAAC GTACCCCTAA
28141 TTAAGAGTCA GGCTTCCTGG ATGTCAGCAT CTGACTTTGG CCAGCACCTG TCCCAGGAT
28201 TTGTTCCAGT CCAACTACAG CGACCCACCC TAACAGAGAT GACCAACACA ACCAACCGCG
28261 CCGCCGCTAC CGGACTTACA TCTACCACAA ATACACCCCA AGTTTCTGCC TTTGTCAATA
28321 ACTGGGATAA CTTGGGCATG TGGTGGTTCT CATAGCGCT ACCACCCATC TATAGTCCCA
28381 TTATGTGGCT CATCTGCTGC CTAAAGCGCA AACGCGCCCG ACCACCCATC TATAGTCCCA
28441 TCATTGTGCT ACACCCAAAC AATGATGGAA TCCATAGATT GGACGGACTG AAACACATGT
28501 TCTTTTCTCT TACAGTATGA TTAAATGAGA TTAATTAAGG AATTTCTGTC CAGTTTATTC
28561 AGCAGCACCT CTTGCCCTC CTCCAGCTC TGGTATTGCA GCTTCCTCCT GGCTGCAAAAC
28621 TTTCTCCACA ATCTAAATGG AATGTCAGTT TCCTCCTGTT CCTGTCCATT CAACCCCGTG
28681 ATCTTCATGT TGTGTCAGAT GAAGCGCGCA AGACCGTCTG AAGATACTT CAACCCCGTG
28741 TATCCATATG ACACGGAAAC CGGTCCCTCA ACTGTGCCTT TTCTTACTCC TCCCTTTGTA
28801 TCCCCCAATG GGTTCAGA GAAGTCCCTT GGGGTACTCT CTTTGCCTT ATCCGAACCT
28861 CTAGTTACCT CCAATGGCAT GCTTGGCTC AAAATGGGCA ACGGCCTCTC TCTGGACGAG
28921 GCCGGCAACC TTACCTCCCA AAATGTAACC ACTGTGAGCC CACCTCTCAA AAAACCAAG
28981 TCAAACATAA ACCTGGAAT ATCTGCACCC CTCACAGTTA CCTCAGAAGC CCTAAGTGTG
29041 GCTGCCGCGG CACCTCTAAT GGTGCGGGC AACACACTCA CCATGCAATC ACAGGCCCCG
29101 CTAACCGTGC ACGACTCCAA ACTTAGCATT GCCACCCAAG GACCCCTCAC AGTGTGAGAA
29161 GGAAAGCTAG CCCTGCAAAC ATCAGGCCCC CTCACCACCA CCGATAGCAG TACCTTACT
29221 ATCACTGCCT CACCCCTCT AACTACTGCC ACTGGTAGCT TGGGCATTGA CTTGAAAGAG
29281 CCCATTTATA CACAAAATGG AAAACTAGGA CTAAAGTACG GGGCTCCTTT GCATGTAACA
29341 GACGACCTAA AACTTTGAC CGTAGCAACT GGTCCAGGTG TGACTATTAA TAATACTTCC
29401 TTGCAAACTA AAGTTACTGG AGCCTTGGGT TTTGATTAC AAGGCAATAT GCAACTTAAT
29461 GTAGCAGGAG GACTAAGGAT TGATTCTCAA AACAGACGCC TTATACTTGA TGTAGTTAT
29521 CCGTTTGTATG CTCAAAACCA ACTAAATCTA AGACTAGGAC AGGGCCCTCT TTTTATAAAC
29581 TCAGCCCACTA ACTTGATAT TAACCTAAC ACTGCCAAG GGTGATGTT TGACGCTACA
29641 AATTCACAAA AGCTTGAGGT TAACCTAAGC ACTGCCAAG GGTGATGTT TGACGCTACA
29701 GCCATAGCCA TTAATGCAGG AGATGGGCTT GAATTTGGT CACCTAATGC ACCAAACACA
29761 AATCCCCTCA AAACAAAAT TGGCCATGGC CTAGAATTG ATTCAAACAA GCCTATGGTT

FIGURE 22
(SHEET 9)

29821	CCTAAACTAG	GAAGTGGCCT	TAGTTTGTGAC	AGCACAGGTG	CCATTACAGT	AGGAAACAAA
29881	AATAATGATA	AGCTAACTTT	GTGGACCACA	CCAGCTCCAT	CTCCTAAGT	TAGACTAAAT
29941	GCAGAGAAAG	ATGCTAAACT	CACTTTGGTC	TTAACAAAAT	GTGGCAGTCA	AATACTTGCT
30001	ACAGTTTCAG	TTTTGGCTGT	TAAAGGCAGT	TTGGTCCCAA	TATCTGGAAC	AGTTCAAAGT
30061	GCTCATCTTA	TTATAAGATT	TGACGAAAAT	GGAGTGTCTAC	TAAACAATTC	CTTCCTGGAC
30121	CCAGAATATT	GGAACTTTAG	AAATGGAGAT	CTTACTGAAG	GCACAGCCTA	TACAAAACGT
30181	GTTGGATTTA	TGCCTAACCT	ATCAGCTTAT	CCAAAATCTC	ACGGTAAAAC	TGCCAAAAGT
30241	AACATTGTCA	GTCAAGTTTA	CTTAAACGGA	GACAAAACCTA	AACCTGTAAC	ACTAACCAAT
30301	ACACTAAACG	GTACACAGGA	AACAGGAGAC	ACAACCTCAA	GTGCATACTC	TATGTCATTT
30361	TCATGGGACT	GGTCTGGCCA	CAACTACATT	AATGAAATAT	TTGCCATATC	CTCTTACACT
30421	TTTTCATACA	TTGCCCAAGA	ATAAAGAATC	GTTTGTGTTA	TGTTTCAACG	TGTTTATTTT
30481	TCAATTGCAG	AAAATTTCAA	GTCATTTTTC	ATTCAGTAGT	ATAGCCCCAC	CACCACATAG
30541	CTTATACAGA	TCACCGTACC	TTAATCAAAC	TCACAGAACC	CTAGTATTCA	ACCTGCCACC
30601	TCCCTCCCAA	CACACAGAGT	ACACAGTCTT	TTCTCCCCGG	CTGGCCTTAA	AAAGCATCAT
30661	ATCATGGGTA	ACAGACATAT	TCTTAGGTGT	TATATTCCAC	ACGGTTTCTT	GTCCGAGCAA
30721	ACGCTCATCA	GTGATATTAA	TAAACTCCCC	GGGCAGCTCA	CTTAAGTTCA	TGTCGCTGTC
30781	CAGTCTGTGA	GCCACAGGCT	GCTGTCCAAC	TTGCGGTTGC	TTAACGGGCG	GCGAAGGAGA
30841	AGTCCACGCC	TACATGGGGG	TAGAGTCATA	ATCGTGCATC	AGGATAGGGC	GGTGGTGTCT
30901	CAGCAGCGCG	CGAATAAACT	GCTGCCGCCG	CCGCTCCGTC	CTGCAGGAAT	ACAACATGGC
30961	AGTGGTCTCC	TCAGCGATGA	TTCGCACCGC	CCGCAGCATA	AGGCGCCTTG	TCCTCCGGGC
31021	ACAGCAGCGC	ACCCTGATCT	CACTAAATC	AGCACAGTAA	CTGCAGCACA	GCACCACAAT
31081	ATTGTTCAAAA	ATCCCACAGT	GCAAGGCGCT	GTATCCAAAG	CTCATGGCGG	GGACCACAGA
31141	ACCCACGTGG	CCATCATACC	ACAAGCGCAG	GTAGATTAAAG	TGGCGACCCC	GCATAAACAC
31201	GCTGGACATA	AACATTACCT	CTTTTGGCAT	GTTGTAATTC	ACCACCTCCC	TGTAACCATAT
31261	AAACCTCTGA	TTAAACATGG	CGCCATCCAC	CACCATCCTA	AACCAGCTGG	CCAAAACCTG
31321	CCCGCCGGCT	ATACACTGCA	GGGAACCGGG	ACTGGAACAA	TTGACAGTGA	GAGCCCAGGA
31381	CTCGTAACCA	TGGATCATCA	TGCTCGTCAT	GATATCAATG	TTGGCACAAC	ACAGGCACAC
31441	GTGCATACAC	TTCTCTCAGGA	TTACAAGCTC	CTCCCGCGTT	AGAACCATAT	CCCAGGGAAC
31501	AACCCATTCC	TGAATCAGCG	TAAATCCCAC	ACTGCAGGGA	AGACCTCGCA	CGTAACCTAC
31561	GTTGTGCATT	GTCAAAGTGT	TACATTCCGG	CAGCAGCGGA	TGATCCTCCA	GTATGGTAGC
31621	GCGGGTTTCT	GTCTCAAAAG	GAGGTAGACG	ATCCCTACTG	TACGGAGTGC	GCCGAGACAA
31681	CCGAGATCGT	TTTGGTCTGA	GTGTCTATGC	AAATGGAACG	CCGGAGCTAG	TCATATTTCC
31741	TGAAGCAAAA	CCAGGTGCGG	GCGTGACAAA	CAGATCTGCG	TCTCCGTTCT	CGCCGCTTAG
31801	ATCGCTCTGT	GTAGTAGTTG	TAGTATATCC	ACTCTCTCAA	AGCATCCAGG	CGCCCCCTGG
31861	CTTCGGGTTT	TATGTAAACT	CCTTCATGCG	CCGCTGCCCT	GATAACATCC	ACCACCGCAG
31921	AATAAGCCAC	ACCCAGCCAA	CCTACACATT	CGTTCTGCGA	GTCACACACG	GGAGGAGCGG
31981	GAAGAGCTGG	AAGAACCATG	TTTTTTTTTT	TATTCCAAAA	GATTATCCAA	AACCTCAAAA
32041	TGAAGATCTA	TTAAGTGAAC	GCGCTCCCCCT	CCGGTGGCGT	GGTCAAACCTC	TACAGCAAAA
32101	GAACAGATAA	TGGCATTGTG	AAGATGTTGC	ACAATGGCTT	CCAAAAGGCA	AACGGCCCTC
32161	ACGTCCAAGT	GGACGTAAAG	GCTAAACCCT	TCAGGGTGAA	TCTCCTCTAT	AAACATTCCA
32221	GACACCTTCA	CCATGCCCAA	ATAATTCTCA	TCTCGCCACC	TCTCAATAT	ATCTCTAAGC
32281	AAATCCCGAA	TATTAAGTCC	GGCCATTGTA	AAATCTGTCT	CCAGAGCGCC	CTCCACCTTC
32341	AGCCTCAAGC	AGCGAATCAT	GATTGCAAAA	ATTCAGGTTT	CTCACAGACC	TGTATAAGAT
32401	TCAAAAGCGG	AACATTAACA	AAAATACCAG	GATCCCGTAG	GTCCCTTCGC	AGGGCCAGCT
32461	GAACATAATC	GTGCAGGTCT	GCACGGACCA	GCGCGGCCAC	TTCCCCGCCA	GGAACCTTGA
32521	CAAAAAGAACC	CACACTGATT	ATGACACGCA	TACTCGGAGC	TATGCTAACC	AGCGTAGGCC
32581	CGATGTAAGC	TTTGTTCAT	GGGCGGCGAT	ATAAAATGCA	AGGTGCTGCT	CAAAAAATCA
32641	GGCAAAGCCT	CGCGCAAAAA	AGAAAGCACA	TCGTAGTCAT	GCTCATGCAG	ATAAAGGCAG
32701	GTAAGCTCCG	GAACCACCAC	AGAAAAAGAC	ACCATTTTTT	TCTCAAACAT	GTCTGCGGGT
32761	TTCTGCATAA	ACACAAAATA	AAATAACAAA	AAAACATTTA	AACATTAGAA	GCCTGTCTTA
32821	CAACAGGAAA	AACAACCCTT	ATAAGCATAA	GACGGACTAC	GGCCATGCCG	GCGTGACCGT
32881	AAAAAACTG	GTCACCGTGA	TTAAAAAGCA	CCACCGACAG	CTCCTCGGTC	ATGTCCGGAG
32941	TCATAATGTA	AGACTCGGTA	AACACATCAG	GTTGATTTCAT	CGGTCAGTGC	TAAAAAGCGA
33001	CCGAAATAGC	CCGGGGGAAT	ACATACCCGC	AGGCGTAGAG	ACAACATTAC	AGCCCCCATA
33061	GGAGGTATAA	CAAAATTAAT	AGGAGAGAAA	AACACATAAA	CACCTGAAAA	ACCTCTCTGC
33121	CTAGGCACAAA	TAGCACCCTC</				

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33241 CCAGCTCAAT CAGTCACAGT GTAAAAAAGG GCCAAGTGCA GAGCGAGTAT ATATAGGACT
 33301 AAAAAATGAC GTAACGGTTA AAGTCCACAA AAAACACCCA GAAAACCGCA CGCGAACCTA
 33361 CGCCCAGAAA CGAAAGCCAA AAAACCCACA ACTTCCTCAA ATCGTCACTT CCGTTTTCCC
 33421 ACGTTACGTA ACTTCCCATT TTAAGAAAAC TACAATTCCC AACACATACA AGTTACTCCG
 33481 CCCTAAAACC TACGTCACCC GCCCCGTTCC CACGCCCCGC GCCACGTCAC AAACCTCCACC
 33541 CCCTCATTAT CATATTGGCT TCAATCCAAA ATAAGGTATA TTATTGATGA TG

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BASE COUNT 7951 a 9671 c 9464 g 7255 t

ORIGIN

1 CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT

61 TTGTGACGTG GCGCGGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT

121 GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG

181 GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGCG GTTTTAGGCG GATGTTGTAG

241 TAAATTTGGG CGTAACCGAG TAAGATTGCG CCATTTTCGC GGGAAAACTG AATAAGAGGA

301 AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTTGTCTA GGGCCGCGGG

361 GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGTTC

421 CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGCTGACG TGTAGTGTAT TTATACCCGG

481 TGAGTTCCTC AAGAGGCCAC TCTTGAGTGC CAGCGAGTAG AGTTTTCTCC TCCGAGCCGC

541 TCCGACACCG GGACTGAAAA TGAGACATGA GGTACTGGCT GATAATCTTC CACCTCCTAG

601 CCATTTTGAA CCACCTACCC TTCACGAACT GTATGATTTA GACGTGACGG CCCCCGAAGA

661 TCCCAACGAG GAGGCGGTTT CGCAGATTTT TCCCGACTCT GTAATGTTGG CCGTGACGGA

721 AGGGATTGAC TTACTCACTT TTCCGCGGGC GCGCGGTTCT CCGGAGCCGC CTCACCTTTC

781 CCGGCAGCCC GAGCAGCCGG AGCAGAGAGC CTTGGGTCCG GTTTGCCACG AGGCTGGCTT

841 TCCACCCAGT GACGACGAGG ATGAAGAGGG TGAGGAGTTT GTGTTAGATT ATGTGGAGCA

901 CCCCCGGCAC GGTTGCAGGT CTTGTCTATA TGAGGACCTG TGGCATGTTT GTCTACAGTA AGTGAAAAAT

961 TATGTGTTTC CTTTGCTATA TGGTGGGTTT GGTGTGGTAA TTTTTTTTTT AATTTTTTACA

1021 ATGGGCAGTG GGTGATAGAG TTGTATTGTG ATTTTTTTAA AAGGTCCTGT GTCTGAACCT

1081 GTTTTGTGGT TTAAAGAAAT TTGTATTGTG ATTTTTTTAA AAGGTCCTGT GTCTGAACCT

1141 GAGCCTGAGC CCGAGCCAGA ACCGGAGCCT GCAAGACCTA CCCGCCGTCC TAAATGGCG

1201 CCTGCTATCC TGAGACGCCC GACATCACCT GTGTCTAGAG AATGCAATAG TAGTACGGAT

1261 AGCTGTGACT CCGTCCCTTC TAACACACCT CCTGAGATAC ACCCGGTGGT CCCGCTGTGC

1321 CCCATTAAAC CAGTTGCCGT GAGAGTTGGT GGGCGTCGCC AGGCTGTGGA ATGTATCGAG

1381 GACTTGCTTA ACGAGCCTGG GCAACCTTTG GACTTGAGCT GTAAACGCCC CAGGCCATAA

1441 GGTGTAAACC TGTGATTGCG TGTGTGGTTA ACGCCTTTGT TTGCTGAATG AGTTGATGTA

1501 AGTTTAATAA AGGGTGAGAT AATGTTTAAAC TTGCATGGCG TGTTAAATGG GCGGGGGCTT

1561 AAAGGGTATA TAATGCGCCG TGGGCTAATC TTGGTTACAT CTGACCTCAT GGAGGCTTGG

1621 GAGTGTTTGG AAGATTTTTC TGCTGTGCGT AACTTGCTGG AACAGAGCTC TAACAGTACC

1681 TCTTGGTTTT GGAGGTTTCT GTGGGGCTCA TCCCAGGCAA AGTTAGTCTG CAGAATTAAG

1741 GAGGATTACA AGTGGGAATT TGAAGAGCTT TTGAAATCCT GTGGTGAGCT GTTTGATTCT

1801 TTGAATCTGG GTCACCAGGC GCTTTTCCAA GAGAAGGTCA TCAAGACTTT GGATTTTTTC

1861 ACACCGGGGC GCGCTGCGGC TGCTGTGCTT TTTTGTAGTT TTATAAAGGA TAAATGGAGC

1921 GAAGAAACCC ATCTGAGCGG GGGGTACCTG CTGGATTTTC TGGCCATGCA TCTGTGGAGA

1981 GCGGTTGTGA GACACAAGAA TCGCCTGCTA CTGTTGTCTT CCGTCCGCCC GGCGATAATA

2041 CCGACGGAGG AGCAGCAGCA GCAGCAGGAG GAAGCCAGGC GCGGCGGCGA GGAGCAGAGC

2101 CCATGGAACC CGAGAGCCGG CCTGGACCCT CCGGAATGAA TGTTGTACAG GTGGCTGAAC

2161 TGTATCCAGA ACTGAGACGC ATTTTGACAA TTACAGAGGA TGGGCAGGGG CTAAAGGGGG

2221 TAAAGAGGGA GCGGGGGGCT TGTGAGGCTA CTTTTCACCA TAGGAATCTA GCTTTTAGCT

2281 TAATGACCAG ACACCGTCCT GAGTGTATTA CTTTTCACCA GATCAAGGAT AATTGCGCTA

2341 ATGAGCTTGA TCTGCTGGCG CAGAAGTATT CCATAGAGCA GCTGACCACT TACTGGCTGC

2401 AGCCAGGGGA TGATTTTGAG GAGGCTATTA GGGTATATGC AAAGGTGGCA CTTAGGCCAG

FIGURE 23
(SHEET 1)

2461 ATTGCAAGTA CAAGATCAGC AAACCTTGTA ATATCAGGAA TTGTTGCTAC ATTTCTGGGA
2521 ACGGGGCGCA GGTGGAGATA GATACGGAGG ATAGGGTGGC CTTTAGATGT AGCATGATAA
2581 ATATGTGGCC GGGGGTGCTT GGCATGGACG GGGTGGTTAT TATGAATGTA AGGTTTACTG
2641 GCCCAATTT TAGCGGTACG GTTTTCCTGG CCAATACCAA CCTTATCCTA CACGGTGTAA
2701 GCTTCTATGG GTTTAACAAT ACCTGTGTGG AAGCCTGGAC CGATGTAAGG GTTCGGGGCT
2761 GTGCCTTTTA CTGCTGCTGG AAGGGGGTGG TGTGTCGCCC TGAGGGTAAC TCCAGGGTGC
2821 AGAAATGCCT CTTTGAAAGG TGTACCTTGG GTATCCTGTC GAAAAGCGTG GCTGTGATTA
2881 GCCACAATGT GGCCTCCGAC TGTGGTTGCT TCATGCTAGT GAAAAGCGTG GCTGTGATTA
2941 AGCATAACAT GGTATGTGGC AACTGCGAGG ACAGGGCCTC TCAGATGCTG ACCTGCTCGG
3001 ACGGCAACTG TCACCTGCTG AAGACCATTC ACGTAGCCAG CCACTCTCGC AAGGCCTGGC
3061 CAGTGTTTGA GCATAACATA CTGACCCGCT GTTCCTTGCA TTTGGGTAAC AGGAGGGGGG
3121 TGTTCTTACC TTACCAATGC AATTTGAGTC ACATAAGAT ATTGCTTGAG CCCGAGAGCA
3181 TGTCCAAGGT GAACCTGAAC GGGGTGTTTG ACATGACCAT GAAGATCTGG AAGGTGCTGA
3241 GGTACGATGA GACCCGCACC AGGTGCAGAC CCTGCGAGTG TGGCGGTAAA CATATTAGGA
3301 ACCAGCCTGT GATGCTGGAT GTGACCGAGG AGCTGAGGCC CGATCACTTG GTGCTGGCCT
3361 GCACCCGCGC TGAGTTTGGC TCTAGCGATG AAGATACAGA TTGAGGTACT GAAATGTGTG
3421 GCGGTGGCTT AAGGGTGGGA AAGAATATAT AAGGTGGGGG TCTTATGTAG TTTTGTATCT
3481 GTTTTGACG AGCCGCCGCC GCCATGAGCA CCAACTCGTT TGATGGAAGC ATTGTGAGCT
3541 CATATTTGAC AACCGCGCATG CCCCCATGGG CCGGGGTGCG TCAGAATGTG ATGGGCTCCA
3601 GCATTGATGG TCGCCCGCTC CTGCCCCGAA ACTCTACTAC CTTGACCTAC GAGACCGTGT
3661 CTGGAACGCC GTTGGAGACT GCAGCCTCCG CCGCCGCTTC AGCCGCTGCA GCCACCGCCC
3721 GCGGGATTGT GACTGACTTT GCTTCTCTGA GCCCCGTTGC AAGCAGTGCA GCTTCCCGTT
3781 CATCCGCCCG CGATGACAAG TTAGCGGCTC TTTTGGCACA ATTGGATTCT TTGACCCGGG
3841 AACTTAATGT CGTTTCTCAG CAGCTGTTGG ATCTGCGCCA GCAGGTTTCT GCCCTGAAGG
3901 CTTCTCCCCC TCCCAATGCG GTTTAAACAA TAAATAAAAA ACCAGACTCT GTTTGGATTT
3961 GGATCAAGCA AGTGTCTTGG TGTCTTTATT TAGGGGTTTT GCGCGCGCGG TAGGCCCCGG
4021 ACCAGCGGTC TCGGTCGTTG AAGGTCCTGT GTATTTTTTC CAGGACGTGG TAAAGGTGAC
4081 TCTGGATGTT CAGATACATG GGCATAAGCC CGTCTCTGGG GTGGAGGTAG CACCACTGCA
4141 GAGCTTCATG CTGCGGGGTG GTGTTGTAGA TGATCCAGTC GTAGCAGGAG CGCTGGGCGT
4201 GGTGCCATAA AATGTCTTTC AGTAGCAAGC TGATTGCCAG GGATATGAGA TGCATCTTGG
4261 TGTTTACAAA GCGGTTAAGC TGGGATGGGT GCATACGTGG CCATATCCCT CCGGGGATTG ATGTTGTGCA
4321 ACTGTATTTT TAGGTTGGCT ATGTTCCCAG TGGGAAATTT GTCATGTAGC TTAGAAGGAA
4381 GAACCACCAG CACAGTGTAT CCGGTGCACT TGGGAAATTT GTCATGTAGC TTAGAAGGAA
4441 ATGCGTGGA GAACCTGGAG ACGCCTTGTG GACCTCCAAG ATTTTCCATG CATTCTGTTA
4501 TAATGATGGC AATGGGCCCA CCGGCGGCGG CCTGGGCGAA GATATTTCTG GGATCACTAA
4561 CGTCATAGTT GTGTTCCAGG ATGAGATCGT CATAGGCCAT TTTTACAAA CGCGGGCGGA
4621 GGGTGCCAGA CTGCGGTATA ATGTTCCCAT CCGGCCCCAG GCGGTAGTTA CCCTCACAGA
4681 TTTGCATTTT CCACGCTTTG AGTTCAGATG GGGGGATCAT GTTGGGAAGA AAGCAGGTTC CTGAGCAGCT
4741 AGAAAACGGT TTCCGGGGTA GGGGAGATCA GCTGGGAAGA AAGCAGGTTC CTGAGCAGCT
4801 GCGACTTACC GCAGCCGGTG GGCCCGTAAA TCACACCTAT TACCGGGTGC AACTGGTAGT
4861 TAAGAGAGCT GCAGCTGCCG TCATCCCTGA GCAGGGGGGC CACTTCGTGA AGCATGTCCC
4921 TGACTCGCAT GTTTTCCCTG ACCAAATCCG CCAGAAGGCG CTCGCCGCCC AGCGATAGCA
4981 GTTCTTGCAA GGAAGCAAAG TTTTCAACG GTTTGAGACC GTCCGCCGTA GGCATGCTTT
5041 TGAGCGTTTG ACCAAGCAGT TCCAGGCGGT CCCACAGCTC GGTCACCTGC TCTACGGCAT
5101 CTCGATCCAG CATATCTCCT CGTTTCGCGG GTTGGGGCGG CTTTCGCTGT ACGGAGTAG
5161 TCGGTGCTCG TCCAGACGGG CCAGGTCAT GTCTTTCCAC GGGCGCAGG TCCTCGTCAG
5221 CGTAGTCTGG GTCACGGTGA AGGGGTGCGC TCCGGGCTGC GCGCTGGCCA GGGTGCCTT
5281 GAGGCTGGTC CTGCTGGTGC TGAAGCGCTG CCGGTCTTCG CCCTGCGCGT CGGCCAGGTA
5341 GCATTTGACC ATGGTGTCTG AGTCCAGCCC CTCCGCGGCG TGGCCCTTGG CGCGCAGCTT
5401 GCCCTTGAG GAGGCGCCGC ACGAGGGGCA GTGCAGACTT TTGAGGGCGT AGAGCTTGGG
5461 CGCGAGAAAT ACCGATTCCG GGGAGTAGGC ATCCGCGCCG CAGGCCCCGC AGACGGTCTC
5521 GCATTCCACG AGCCAGGTGA GCTCTGGCCG TTCGGGGTCA AAAACCAAGT TCCCCCATG
5581 CTTTGTGATG CGTTTCTTAC CTCTGGTTTC CATGAGCCGG TGTCCACGCT CGGTGACGAA
5641 AAGGCTGTCC GTGTCCCGT ATACAGACTT GAGAGGCCTG TCCTCGAGCG GTGTTCCGCG
5701 GTCCTCCTCG TATAGAAACT CCGACCACTG TGAGACAAAG GCTCGCGTCC AGGCCAGCAC
5761 GAAGGAGGCT AAGTGGGAGG GGTAGCGGTC GTTGTCCACT AGGGGGTCCA CTCGCTCCAG
5821 GGTGTGAAGA CACATGTCGC CCTCTTCGGC ATCAAGGAAG GTGATTGGTT TGTAGGTGTA

FIGURE 23
(SHEET 2)

5881	GGCCACGTGA	CCGGGTGTTT	CTGAAGGGGG	GCTATAAAAG	GGGGTGGGGG	CGCGTTCGTC
5941	CTCACTCTCT	TCCGCATCGC	TGTCTGCGAG	GGCCAGCTAG	TGGGTGAGT	ACTCCCTCTG
6001	AAAAGCGGGC	ATGACTTCTG	CGCTAAGATT	GTCAGTTTCT	AAAAACGAGG	AGGATTTGAT
6061	ATTACCTTGG	CCCGCGGTGA	TGCCTTTGAG	GGTGCCGCA	TCCATCTGGT	CAGAAAAGAC
6121	AATCTTTTTT	TTGTCAAGCT	TGGTGGCAAA	CGACCCGTAG	AGGGCGTTGG	ACAGCAACTT
6181	GGCGATGGAG	CGCAGGGTTT	GGTTTTTGTC	GCGATCGGCG	CGCTCCTTGG	CCGCGATGTT
6241	TAGCTGCACG	TATTCGCGCG	CAACGCACCG	CCATTTCGGGA	AAGACGGTGG	TGCGCTCGTC
6301	GGGCACCAAG	TGCACGCGCC	AACCGCGGTT	GTGCAGGGTG	ACAAGGTCAA	CGCTGGTGGC
6361	TACCTCTCCG	CGTAGGCGCT	CGTTGGTCCA	GCAGAGGCGG	CCGCCCTTGC	CGCAGCAGAA
6421	TGGCGGTAGG	GGGTCTAGCT	GCGTCTCGTC	CGGGGGGTCT	CGCTCCACGG	TAAAGACCCC
6481	GGGCAGCAGG	CGCGCGTCTGA	AGTAGTCTAT	CTTGACCTCT	TGCAAGTCTA	GCGCCTGCTG
6541	CCATGCGCGG	GCGGCAAGCG	CGCGCTCGTA	TGGGTTGAGT	GGGGGACCCC	ATGGCATGGG
6601	GTGGGTGAGC	GCGGAGGCGT	ACATGCCGCA	AATGTCGTAA	ACGTAGAGGG	GCTCTCTGAG
6661	TATTCCAAAG	TATGTAGGGT	AGCATCTTCC	ACCGCGGATG	CTGGCGCGCA	CGTAATCGTA
6721	TAGTTCGTGC	GAGGGAGCGA	GGAGGTCGGG	ACCGAGGTTG	CTACGGGCGG	GCTGCTCTGC
6781	TCCGAAGACT	ATCTGCCTGA	AGATGGCATG	TGAGTTGGAT	GATATGGTTG	GACGCTGGAA
6841	GCGTTGAAG	CTGGCGTCTG	TGAGACCTAC	CGCGTCAACG	ACGAAGGAGG	CGTAGGAGTC
6901	GCGCAGCTTG	TTGACCAGCT	CGGCGGTGAC	CTGCACGTCT	AGGGCGCAGT	AGTCCAGGGT
6961	TTCCTTGATG	ATGTCATACT	TATCCTGTCT	CTTTTTTTTC	CACAGCTCGC	GGTTGAGGAC
7021	AAACTCTTCG	CGGTCTTTCC	AGTACTCTTG	GATCGGAAAC	CCGTGCGCCT	CCGAACGGTA
7081	AGAGCCTAGC	ATGTAGAACT	GGTTAGCGCG	CTGGTAGGCG	CAGCATCCCT	TTTCTACGGG
7141	TAGCGCGTAT	GCCTGCGCGG	CCTTCCGGAG	CGAGGTGTGG	GTGAGCGCAA	AGGTGTCCCT
7201	GACCATGACT	TTGAGGTACT	GGTATTTGAA	GTCAGTGTCT	TGCGATCCCG	CCTGCTCCCA
7261	GAGCAAAAAG	TTCGTGCGCT	TTTTGGAACG	CGGATTTGGC	AGGGCGAAGG	TGACATCGTT
7321	GAAGAGTATC	TTTCCGCGCG	GAGGCATAAA	GTGCGTGTGT	ATGCGGAAGG	GTCCCGGCAC
7381	CTCGGAACGG	TTGTTAATTA	CCTGGGCGCG	GAGCAGCATC	TCGTCAAAGC	CGTTGATGTT
7441	GTGGCCACAC	ATGTAAAGTT	CCAAGAAGCG	CGGGATGCCC	TTGATGGAAG	GCAATTTTTT
7501	AAGTTCCTCG	TAGGTGAGCT	CTTCAGGGGA	CGTGAGCCCG	TGCTCTGAAA	GGGCCAGCTC
7561	TGCAAGATGA	GGGTGGAAG	CGACGAATGA	GCTCCACAGG	TCACGGGCCA	TTAGCATTTG
7621	CAGGTGGTCT	CGAAAGGTC	TAAACTGGCG	ACCTATGGCC	ATTTTTTCTG	GGGTGATGCA
7681	GTAGAAGTGA	AGCGGGTCTT	GTTCCACAGC	GTCCCATCCA	AGGTTCGCGG	CTAGGTCTCG
7741	CGCGGCAGTC	ACTAGAGGCT	CATCTCCGCC	GAACCTCATG	ACCAGCATGA	AGGGCACGAG
7801	CTGCTTCCCA	AAGGCCCCCA	TCCAAGTATA	GGTCTCTACA	TCGTAGGTGA	CAAAGAGACG
7861	CTCGGTGCGA	GGATGCGAGC	CGATCGGGAA	GAACCTGATC	TCCCGCCACC	AATTGGAGGA
7921	GTGGCTATTG	ATGTGGTGAA	AGTAGAAGTC	CTGCGACGCG	GCCGAACACT	CGTGCTGGCT
7981	TTTGTA AAAA	CGTGCGCAGT	ACTGGCAGCG	GTGCACGGGC	TGTACATCCT	GCACGAGGTT
8041	GACCTGACGA	CCGCGACAAA	GGAAGCAGAG	TGGGAATTGT	AGCCCCCTCG	CTGGCGGGTT
8101	TGGCTGGTGG	TCTTCTACTT	CGGCTGCTTG	TCCTTGACCG	TCTGGCTGCT	CGAGGGGAGT
8161	TACGGTGATG	CGGACCACCA	CGCCGCGCGA	GCCCCAAGTC	CAGATGTCCG	CGCGCGCGCG
8221	TCGGAGCTTG	ATGACAACAT	CGCGCAGATG	GGAGCTGTCC	ATGGTCTGGA	GCTCCCCGCG
8281	CGTCAGGTCA	GGCGGGAGCT	CCTGCAGGTT	TACCTCGCAT	AGACGGGTCA	GGGCGCGGGC
8341	TAGATCCAGG	TGATACCTAA	TTTCCAGGGG	CTGGTTGGTG	GCGGCGTCTGA	TGGCTTGCAA
8401	GAGGCCGCAT	CCCCGCGGCG	CGACTACGGT	ACCGCGCGGC	GGGCGGTGGG	CCGCGGGGGT
8461	GTCCTTGATG	GATGCATCTA	AAAGCGGTGA	CGCGGGCGAG	CCCCCGGAGG	TAGGGGGGGC
8521	TCCGGACCCG	CCGGGAGAGG	GGGCAGGGGC	ACGTGCGGCG	CGCGCGCGGG	CAGGAGCTGG
8581	TGCTGCGCGC	GTAGGTTGCT	GGCGAACGCG	ACGACGCGGC	GGTTGATCTC	CTGAATCTGG
8641	CGCTCTGCGG	TGAAGACGAC	GGGCCCCGGT	AGCTTGAGCC	TGAAAGAGAG	TTCGACAGAA
8701	TCAATTTTCG	TGTCGTTGAC	GGCGGCCCTG	CGCAAAATCT	CCTGCACGTC	TCCTGAGTTG
8761	TCTTGATAGG	CGATCTCGGC	CATGAACGTC	TCGATCTCTT	CCTCCTGGAG	ATCTCCGCGT
8821	CCGGCTCGCT	CCACGGTGGC	GGCGAGGTCT	TGGGAAATGC	GGGCCATGAG	CTGCGAGAAG
8881	GCGTTGAGGC	CTCCCTCGTT	CCAGACGCGG	CTGTAGACCA	CGCCCCCTTC	GGCATCGCGG
8941	GCGCGCATGA	CCACCTGCGC	GAGATTGAGC	TCCACGTGCC	GGGCGAAGAC	GGCGTAGTTT
9001	CGCAGGCGCT	GAAAGAGGTA	GTTGAGGGTG	GTGGCGGTGT	GTTCTGCCAC	GAAGAAATTAC
9061	ATAACCCGAC	GTCGCAACGT	GGATTCTGTT	ATATCCCCCA	AGGCCTCAAG	CGCTCCATG
9121	GCCTCGTAGA	AGTCCACGGC	GAAGTTGAAA	AACTGGGAG		

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0934778-071299

9301 TCTGGCGGCG GTGGGGGAGG GGGGACACGG CGGCGACGAC GGCGCACCGG GAGGCGGTCCG
9361 ACAAAGCGCT CGATCATCTC CCCGCGGCGA CGGCGCATGG TCTCGGTGAC GGCGCGGCCG
9421 TTCTCGCGGG GCGCGAGTTG GAAGACGCCG CCCGTCATGT CCCGGTTATG GGTGGCGGG
9481 GGGCTGCCAT GCGGCAGGGA TACGGCGCTA ACGATGCATC TCAACAATTG TTGTGTAGGT
9541 ACTCCGCCGC CGAGGGACCT GAGCGAGTCC GCATCGACCG GATCGGAAAA CCTCTCGAGA
9601 AAGGCGTCTA ACCAGTCACA GTCGCAAGGT AGGCTGAGCA CCGTGGCGGG CGGCAGCGGG
9661 CGGCGGTCCG GGTGTGTTCT GCGGAGGTG CTGCTGATGA TGTAATTAAA GTAGGCGGTG
9721 TTGAGACGGC GGATGGTCGA CAGAAGCACC ATGTCCTTGG GTCCGGCCTG CTGAATGCGC
9781 AGGCGGTCCG CCATGCCCCA GGCTTCGTTT TGACATCGGC GCAGGTCTTT GTAGTAGTCT
9841 TGCATGAGCC TTTCTACCGG CACTTCTTCT TCTCCTTCCT CTGTCTTCG ATCTCTTGCA
9901 TCTATCGCTG CGGCGGCGGC GGAGTTTGGC CGTAGGTGGC GCCCTCTTCC TCCCATGCGT
9961 GTGACCCCGA AGCCCTCAT CGGCTGAAGC AGGGCTAGGT CGGCGACAAC CATCCATGTC CACAAAGCGG
10021 AATATGGCCT GCTGCACCTG CGTGAGGGTA GACTGGAAGT TAACGGACCA GTTAACGGTC
10081 TGGTATGCGC CCGTGTGAT GGTGTAAGTG CAGTTGGCCA AGTAAGCCCT CGAGTCAAAT
10141 TGGTGACCCG GCTGCGAGAG CTCGGTGTAC CTGAGACGCG CCAAAAAGTG CGGCGGCGGC
10201 ACGTAGTCGT TGCAAGTCCG CACCAGGTAC TGGTATCCCA GGGGCTCCGG GGGCGAGATC TTCCAACATA
10261 TGGCGGTAGA GGGGCCAGCG TAGGGTGGCC ATCCAGGTGA TGCCGGCGGC GGTGGTGGAG
10321 AGGCGATGAT ATCCGTAGAT GTACCTGGAC ATGTTGCGCA GCGGCAAAAA GTGCTCCATG
10381 GCGCGCGGAA AGTCGCGGAC GCGGTTCCAG ATGTTGCGCA CGCTCTAGCG TGCAAAAAGGA
10441 GTCGGGAGCA TCTGGCCGGT CAGGCGCGCG CAATCGTTGA CGCTCTAGCG GTATCATGGC
10501 GAGCGTGTAA GCGGGCACTC TTCCGTGGTC TGGTGGATAA ATTCGCAAGG GGTATCCGCC
10561 GGACGACCGG GGTTCGAGCC CCGTATCCGG CCGTCCGCCG AGTGCTCCTT TTGGCTTCCT
10621 CGCGTGTGTA ACCCAGGTGT GCGACGTGAG CCGTCCGCCG TGATCCATGC GGTATCCGCC
10681 TCCAGGCGCG GCGGCTGCTG CGCTAGCTTT TTTGGCCACT GGCCGCGCGC AGCGTAAGCG
10741 GTTAGGCTGG AAAGCGAAAG CATTAAAGTG CTCGCTCCCT GTAGCCGGAG GGTATTTTC
10801 CAAGGGTTGA GTCGCGGGAC CCCCAGTTTC AGTCTCGGAC CGGCCGGACT GCGGCGAACG
10861 GGGGTTTGCC TCCCCGTAT GCAAGACCCC GCTTGCAAAT TCCTCCGGAA ACAGGGACGA
10921 GCCCCTTTT TGCTTTTCCC AGATGCATCC GGTGCTGCGG CAGATGCGCC CCCCTCCTCA
10981 GCAGCGGCAA GAGCAAGAGC AGCGGCAGAC ATGCAGGGCA CCGTCCCTC CTCCTACCGC
11041 GTCAGGAGGG GCGACATCCG CGGTTGACGC GGCAGCAGAT GGTGATTACG AACCCCGCG
11101 GCGCCGGGCC CCGCACTACC TGGACTTGGA GGAGGGCGAG GGCTGGCGC GGCTAGGAGC
11161 GCCCTCTCCT GAGCGGTACC CAAGGGTGA GCTGAAGCGT GATACGCGTG AGGCGTACGT
11221 GCGCGGCGAG AACCTGTTTC GCGACCGCGA GGGAGAGGAG CCGGAGGAGA TGCGGGATCG
11281 AAAGTTCCAC GCAGGGCGCG AGCTGCGGCA TGGCCTGAAT CGCGAGCGGT TGCTGCGCGC
11341 GGAGGACTTT GAGCCGACG CGCGAACCAG GATTAGTCCC GCGCGCGCAC ACCTGGCGG
11401 CGCCGACCTG GTAACCGCAT ACGAGCAGAC GGTGAACCAG GAGATTAACT TTCAAAAAAG
11461 CTTTAAACAC CACGTGCGTA CGCTTGTGGC GCGCGAGGAG GTGGCTATAG GACTGATGCA
11521 TCTGTGGGAC TTTGTAAGCG CGCTGGAGCA AAACCCAAAT AGCAAGCCGC TCATGGCGCA
11581 GCTGTTCCTT ATAGTGCAGC ACAGCAGGGA CAACGAGGCA TTCAGGGATG CGCTGCTAAA
11641 CATAGTAGAG CCCGAGGGCC GCTGGCTGCT CAAGGTGGCC GCCATCAACT ATTCCATGCT
11701 GGTGCAGGAG CGCAGCTTGA GCCTGGCTGA ATACCATACC CCTTACGTTT CCATAGACAA
11761 TAGCCTGGGC AAGTTTTACG CCCGCAAGAT ATACCATACC AAGGTGCTTA CTTTGAGCGA
11821 GGAGGTAAAG ATCGAGGGGT TCTACATGCG CATGGCGCTG AAGGTGCTTA CTTTGAGCGA
11881 CGAGCTGGGC GTTTATCGCA ACGAGCGCAT CCACAAGGCC GTGAGCGTGA GCCGGCGGCG
11941 CGAGCTCAGC GACCGCGAGC TGATGCACAG CCTGCAAAGG GACCTGCGCT GGCCTGCGCT
12001 CGGCGATAGA GAGGCCGAGT CCTACTTTGA CGCGGGCGCT GACCTGCGCT GGCCTGCGCT
12061 CCGACGCGCC CTGGAGGCG AGCTGGGCTG ACCTGGGCTG GCGGTGGCAC CCGCGCGCGC
12121 TGGCAACGTC GGCGGCGTGG AGGAATATGA CGAGGACGAT GAGTACGAGC CAGAGGACGG
12181 CGAGTACTAA GCGGTGATGT TTCTGATCAG ATGATGCAAG ACGCAACGGA CCCGGCGGTG
12241 CGGGCGGCGC TGCAAGGCCA GCGGTCCGGC CTTAACTCCA CGGACGACTG GCGCCGCGAG
12301 ATGGACCGCA TCATGTGCT GACTGCGCGC AATCCTGACG CGTTCCGGCA GCAGCCGCGAG
12361 GCCAACCAGG TCTCCGCAAT TCTGGAAGCG GTGGTCCCGG CGCGCGCAAA CCCCACGCAC
12421 GAGAAGGTGC TGGCGATCGT AAACCGCGTG GCCGAAAAA GGGCCATCCG GCGGACGAG
12481 GCGGCGCTGG TCTACGACGC GCTGCTTCAG CGCGTGGCTC GTTACAACAG CCGCAACGTG
12541 CAGACCAACC TGGACCGGCT GGTGGGGGAT GTGCGCGAGG CCGTGGCGCA GCGTGAGCGC
12601 GCGCAGCAGC AGGGCAACCT GGGCTCCATG GTTGCACTAA ACGCTTCCT GAGTACACAG
12661 CCCGCCAACG TGCCGCGGGG ACAGGAGGAC TACACCAACT TTGTGAGCGC ACTGCGGCTA

FIGURE 23
(SHEET 4)

12721 ATGGTGACTG AGACACCGCA AAGTGAGGTG TACCAGTCTG GGCCAGACTA TTTTTCAG
12781 ACCAGTAGAC AAGGCCTGCA GACCGTAAAC CTGAGCCAGG CTTTCAAAAA CTTGCAGGGG
12841 CTGTGGGGGG TGCGGGCTCC CACAGGCGAC CGCGCGACCG TGTCTAGCTT GCTGACGCCC
12901 AACTCGCGCC TGTGTGCTGCT GCTAATAGCG CCCTTCACGG ACAGTGGCAG CGTGTCCCGG
12961 GACACATACC TAGGTCACTT GCTGACACTG TACCGCGAGG CCATAGGTCA GGCGCATGTG
13021 GACGAGCATA CTTTCCAGGA GATTACAAGT GTCAGCCGCG CGCTGGGGCA GGAGGACACG
13081 GGCAGCCTGG AGGCAACCCT AAACCTACCTG CTGACCAACC GCGCGCAGAA GATCCCCCTG
13141 TTGCACAGTT TAAACAGCGA GGAGGAGCGC ATTTTTCGCT ACGTGCAGCA GAGCGTGAGC
13201 CTTAACCTGA TGCGCGACGG GGTAAACGCC AGCGTGGCGC TGGACATGAC CGCGCGCAAC
13261 ATGGAACCGG GCATGTATGC CTCAAACCGG CCGTTTATCA ACCGCCTAAT GGACTACTTG
13321 CATCGCGCGG CCGCCGTGAA CCCCAGTAT TTCACCAATG CCATCTTGAA CCCGCACTGG
13381 CTACCGCCCC CTGTTTCTA CACCGGGGA TTCGAGGTGC CCGAGGTAA CGATGGATTG
13441 CTCTGGGACG ACATAGACGA CAGCGTGTTC TCCCCGCAAC CGCAGACCCT GCTAGAGTTG
13501 CAACAGCGCG AGCAGGCAGA GGCGGCGCTG CGAAAGGAAA GCTTCCGAG GCCAAGCAGC
13561 TTGTCCGATC TAGGCGCTGC GGCCCCGCGG TCAGATGCTA GTAGCCCATT TCCAAGCTTG
13621 ATAGGTCTC TTACCAGCAC TCGCACCACC GCGCAGCGC GAAAAAAACC TGCTCCGCGC ATTTCCCAAC
13681 CTAAACAACCT CGCTGCTGCA GCCGAGCGC AGTAAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13741 AACGGGATAG AGAGCCTAGT GGACAAGATG AGTAGATGGA AGACGTACGC GCAGGAGCAC
13801 AGGGACGTGC CAGGCCGCGG CCGCCCCACC CGTCGTCAAA GGCACGACCG TCAGCGGGGT
13861 CTGGTGTGGG AGGACGATGA CTCGGCAGAC GACAGCAGCG TCCTGGATTG GGGAGGGAGT
13921 GGCAACCCGT TTGCGCACCT TCGCCCCAGG CTGGGGAGAA TGTTTTAAAA AAAAAAAGC
13981 ATGATGCAAA ATAAAAAAT CACCAAGGCC ATGGCACCAG GCGTTGGTTT TCTGTATTG
14041 CCCTTAGTAT GCGGCGCGCG GCGATGTATG AGGAAGGTCC TCCTCCCTCC TACGAGAGTG
14101 TGGTGAGCGG GGCGCCAGTG GCGGCGCGCG CTACCGGGGG GAGAAACAGC ATCCGTTACT
14161 CGCCGTTTGT GCCTCCGCGG TACCTGCGCG GTGTGTACCT GGTGGACAAC AAGTCAACGG
14221 CTGAGTTGGC ACCCTTATTC CAGAACGACC ACAGCAACTT TCTGACCAGG GTCATTCAAA
14281 ATGTGGCATC CCTGAACCTAC GAGGCAAGCA CACAGACCAT CAATCTTGAC GACCGGTCGC
14341 ACAATGACTA CAGCCCCGGG ACCATCCTGC ATACCAACAT GCCAAATGTG AACGAGTTCA
14401 ACTGGGGCGG CGACCTGAAA ACCATCCTGC ATACCAACAT GCCAAATGTG AACGAGTTCA
14461 TGTTTACCAA TAAGTTTAA GCGCGGGTGA TGGTGTGCGG CTGCGCTGCC CGAGGGCAAC TACTCCGAGA
14521 AGGTGGAGCT GAAATACGAG TGGGTGGAGT TCACGCTGCC CGAGGGCAAC TACTCCGAGA
14581 CCATGACCAT AGACCTTATG AACAACGCGA TCGTGGAGCA CTACTTGAAG GTGGGCGAGC
14641 AGAACGGGGT TCTGGAAAGC GACATCGGGG TAAAGTTTGA CACCCGCAAC TTCAGACTGG
14701 GGTGTGACCC CGTCACTGGT CTTGTCTATG CTGGGGTATA TACAAACGAA GCCTTCCATC
14761 CAGACATCAT TTGCTGCCA GGATGCGGGG TGGACTTCAC CCACAGCCCG CTGAGCAACT
14821 TGTGCGGCAT CCGCAAGCGG CAACCCCTTC AGGAGGGCTT TAGGATCACC TACGATGATC
14881 TGGAGGGTGG TAACATTTCC GCACTGTTGG ATGTGGACGC CTACAGGCG AGCTTGAAAG
14941 ATGACACCGA ACAGGGCGGG GGTGGCGCAG GCGGCAGCAA CAGCAGTGGC AGCGGCGCGG
15001 AAGAGAACTC CAACGCGGCA GCCGCGGCAA TGCAGCCGGT GGAGGACATG AACGATCATG
15061 CCATTGCGGG CGACACCTTT GCCACACGGG CTGAGGAGAA GCGCGCTGAG GCCGAAGCAG
15121 CGGCCGAAGC TGCCGCCCCC GCTGCGCAAC CCGAGGTCGA GAAGCCTCAG AAGAAACCGG
15181 TGATCAAAAC CCTGACAGAG GACAGCAAGA AACGCAGTTA CAACCTAATA AGCAATGACA
15241 GCACCTTCAC CCAGTACCGC AGCTGGTACC TTGCATACAA CTACGGCGAC CCTCAGACCG
15301 GAATCCGCTC ATGGACCCTG CTTTGCATC CTGACGTAAC CTGCGGCTCG GAGCAGGTCT
15361 ACTGGTCGTT GCCAGACATG ATGCAAGACC CCGTGACCTT TGCCCGTGCA CTCCAAGAGC TTCTACAACG
15421 GCAACTTTCC GGTGGTGGGC GCCGAGCTGT TGCCCGTGCA CTCCAAGAGC GTGTTCAATC
15481 ACCAGGCCGT CTACTCCCAA CTCATCCGCC AGTTTACCTC TCTGACCCAC ACCGTCAGTG
15541 GCTTTCCCGA GAACCAGATT TTGGCGCGCC CGCCAGCCCC CACCATCACC ATCGGAGGAG
15601 AAAACGTTCC TGCTCTCACA GATCACGGGA CGCTACCGCT GCGCAACAGC ATCGGAGGAG
15661 TCCAGCGAGT GACCATTAAT GACGCCAGAC GCCGCACCTG CCCCTACGTT TACAAGGCC
15721 TGGGCATAGT CTCGCCGCGC GTCCTATCGA GCCGCACTTT TTGAGCAAGC ATGTTCATCC
15781 TTATATCGCC CAGCAATAAC ACAGGCTGGG GCCTGCGCTT CCCAAGCAAG ATGTTTGGCG
15841 GGGCCAAGAA GCGCTCCGAC CAACACCCAG TGCGCGTGCG CCGGCACTAC CGCGCGCCCT
15901 GGGGCGCGCA CAAACGCGGC CGCACTGGGC GCACCAACCGT CGATGACGCC ATCGACGCGG
15961 TGGTGGAGGA GGCGCGCAAC TACAGCCCCA CGCCGCCACC AGTGTCCACA GTGGACGCGG
16021 CCATTGAGAC CGTGGTGGCG GGAGCCCGGC GCTATGCTAA AATGAAGAGA CGCGCGAGGC
16081 GCGTAGCACG TCGCCACCGC CGCCGACCCG GCACTGCCGC CCAACGCGCG GCGGCGGCCC

FIGURE 23
(SHEET 5)

0035178-07199

16141	TGCTTAACCG	CGCACGTCGC	ACCGGCCGAC	GGCGGCCAT	GCGGGCCGCT	CGAAGGCTGG
16201	CCGCGGGTAT	TGTCACGTGT	CCCCCAGGT	CCAGGCGACG	AGCGGCCGCC	GCAGCAGCCG
16261	CGGCCATTAG	TGCTATGACT	CAGGGTCGCA	GGGGCAACGT	GTATTGGGTG	CGCGACTCGG
16321	TTAGCGGCCT	GCGCGTGCCC	GTGCGCACCC	GCCCCCGCG	CAACTAGATT	GCAAGAAAAA
16381	ACTACTTAGA	CTCGTACTGT	TGTATGTATC	CAGCGGCGGC	GGCGCGCAAC	GAAGCTATGT
16441	CCAAGCGCAA	AATCAAAGAA	GAGATGCTCC	AGGTCATCGC	GCCCGAGATC	TATGGCCCCC
16501	CGAAGAAGGA	AGAGCAGGAT	TACAAGCCCC	GAAAGCTAAA	GCGGGTCAAA	AAGAAAAAGA
16561	AAGATGATGA	TGATGAACTT	GACGACGAGG	TGGAAGTGGT	GCACGCTACC	GCGCCAGGC
16621	GACGGGTACA	GTGGAAAGGT	CGACGCGTAA	AACGTGTTTT	GCGACCCGGC	ACCACCGTAG
16681	TCTTTACGCC	CGGTGAGCGC	TCCACCCGCA	CCTACAAGCG	CGTGTATGAT	GAGGTGTACG
16741	GCGACGAGGA	CCTGCTTGAG	CAGGCCAACG	AGCGCCTCGG	GGAGTTTGCC	TACGGAAAGC
16801	GGCATAAGGA	CATGCTGGCG	TTGCCGCTGG	ACGAGGGCAA	CCCAACACCT	AGCCTAAAGC
16861	CCGTAACACT	GCAGCAGGTG	CTGCCCCGCG	TTGCACCGTC	CGAAGAAAAG	CGCGCCTTAA
16921	AGCGCGAGTC	TGGTGACTTG	GCACCCACCG	TGCAGCTGAT	GGTACCCAAG	CGCCAGCGAC
16981	TGGAAGATGT	CTTGGAAGAA	ATGACCGTGG	AACCTGGGCT	GGAGCCCGAG	GTCCGCGTGC
17041	GGCCAATCAA	GCAGGTGGCG	CCGGGACTGG	GCGTGCAGAC	CGTGACGCTT	CAGATACCCA
17101	CTACCAGTAG	CACCAGTATT	GCCACCGCCA	CAGAGGGCAT	GGAGACACAA	ACGTCCCCGG
17161	TTGCCTCAGC	GGTGGCGGAT	GCCGCGGTGC	AGGCGGTGCG	TGCGGCCGCG	TCCAAGACCT
17221	CTACGGAGGT	GCAAACGGAC	CCGTGGATGT	TTCGCGTTTC	AGCCCCCGG	CGCCCCGCGC
17281	GTTCGAGGAA	GTACGGCGCC	GCCAGCGCGC	TACTGCCCGA	ATATGCCCTA	CATCCTTCCA
17341	TTGCGCCTAC	CCCCGCTAT	CGTGGCTACA	CCTACCGCCC	CAGAAGACGA	GCAACTACCC
17401	GACGCCGAAC	CACCACTGGA	ACCCGCCGCC	GCCGTGCGCG	TCGCCAGCCC	GTGCTGGCCC
17461	CGATTTCCGT	GCGCAGGGTG	GCTCGCGAAG	GAGGCAGGAC	CCTGGTGCTG	CCAACAGCGC
17521	GCTACCACCC	CAGCATCGTT	TAAAAGCCGG	TCTTTGTGGT	TCTTGAGAT	ATGGCCCTCA
17581	CCTGCCGCCT	CCGTTTCCCG	GTGCCGGGAT	TCCGAGGAAG	AATGCACCGT	AGGAGGGGCA
17641	TGGCCGGCCA	CGGCCTGACG	GGCGGCATGC	GTCTGTGCGA	CCACCGGCGG	CGGCGCGCGT
17701	CGCACCGTCG	CATGCGCGCG	GGTATCCTGC	CCCTCCTTAT	TCCACTGATC	GCCGCGGCGA
17761	TTGGCGCCGT	GCCCGGAATT	GCATCCGTGG	CCTTGACAGC	GCAGAGACAC	TGATTAAAAA
17821	CAAGTTGCAT	GTGGAAGAAAT	CAAAATAAAA	AGTCTGGACT	CTCACGCTCG	CTTGCTCCTG
17881	TAACATTTT	GTAGAATGGA	AGACATCAAC	TTTGCGTCTC	TGGCCCCGCG	ACACGGCTCG
17941	CGCCCCGTTCA	TGGGAAACTG	GCAAGATATC	GGCACCAGCA	ATATGAGCGG	TGGCGCCTTC
18001	AGCTGGGGCT	CGCTGTGGAG	CGGCATTAAA	AATTTTCGGT	CCACCGTTAA	GAACATATGGC
18061	AGCAAGGCCT	GGAACAGCAG	CACAGGCCAG	ATGCTGAGGG	ATAAGTTGAA	AGAGCAAAAT
18121	TTCCAACAAA	AGGTGGTAGA	TGGCCTGGCC	TCTGGCATT	GCGGGGTGGT	GGACCTGGCC
18181	AACCAGGCAG	TGCAAAATAA	GATTAACAGT	AAGCTTGATC	CCCCGCCCTC	CGTAGAGGAG
18241	CCTCCACCGG	CCGTGGAGAC	AGTGTCTCCA	GAGGGGCGTG	GCGAAAAGCG	TCCGCGCCCC
18301	GACAGGGAAG	AAACTCTGGT	GACGCAAATA	GACGAGCCTC	CCTCGTACGA	GGAGGCACTA
18361	AAGCAAGGCC	TGCCCCACCAC	CCGTCCCATC	GCGCCCATGG	CTACCGGAGT	GCTGGGCCAG
18421	CACACACCCG	TAACGCTGGA	CCTGCCTCCC	CCCCCGGACA	CCCAGCAGAA	ACCTGTGCTG
18481	CCAGGCCCGA	CCGCCGTTGT	TGTAACCCGT	CCTAGCCGCG	CGTCCCTGCG	CCGCGCCGCC
18541	AGCGGTCCGC	GATCGTTGCG	GCCCCGTAGC	AGTGGCAACT	GGCAAAGCAC	ACTGAACAGC
18601	ATCGTGGGTC	TGGGGGTGCA	ATCCCTGAAG	CGCCGACGAT	GCTTCTGAAT	AGCTAACGTC
18661	TCGTATGTGT	GTCATGTATG	CGTCCATGTC	GCCGCCAGAG	GAGCTGTGTA	GCCGCCGCGC
18721	GCCCCGTTTC	CAAGATGGCT	ACCCCTTCGA	TGATGCCGCA	GTGGTCTTAC	ATGCACATCT
18781	CGGGCCAGGA	CGCCTCGGAG	TACCTGAGCC	CCGGGCTGGT	GCAGTTTGCC	CGCGCCACCG
18841	AGACGTACTT	CAGCCTGAAT	AACAAGTTTA	GAAACCCAC	GGTGGCGCCT	ACGCACGACG
18901	TGACCACAGA	CCGGTCCCAG	CGTTTGACGC	TGCGGTTTCAT	CCCTGTGGAC	CGTGAGGATA
18961	CTGCGTACTC	GTACAAGGCG	CGGTTCAACC	TAGCTGTGGG	TGATAACCGT	GTGCTGGACA
19021	TGGCTTCCAC	GTACTTTGAC	ATCCGCGGCG	TGCTGGACAG	GGGCCCTACT	TTTAAGCCCT
19081	ACTCTGGCAC	TGCCTACAAC	GCCCTGGCTC	CCAAGGGTGC	CCCAAATCCT	TGCGAATGGG
19141	ATGAAGCTGC	TACTGCTCTT	GAAATAAACC	TAGAAGAAGA	GGACGATGAC	AACGAAGACG
19201	AAGTAGACGA	GCAAGCTGAG	CAGCAAAAAA	CTCACGTATT	TGGGCAGGCG	CCTTATTCTG
19261	GTATAAATAT	TACAAAGGAG	GGTATTCAAA	TAGGTGTCGA	AGGTCAAACA	CCTAAATATG
19321	CCGATAAAAC	ATTTCAACCT	GAACCTCAAA	TAGGAGAATC	TCAGTGGTAC	GAAACTGAAA
19381	TTAATCATGC	AGCTGGGAGA	GTCCTTAAAA	AGACTACCCC	AATGAAACCA	TGTTACGGTT
19441	CATATGCAAA	ACCCACAAAT	GAAAATGGAG	GGCAAGGCAT	TCTTGTAAG	CAACAAAATG
19501	GAAAGCTAGA	AAGTCAAGTG	GAAATGCAAT	TTTTCTCAAC	TACTGAGGCG	ACCGCAGGCA

FIGURE 23
(SHEET 6)

19561	ATGGTGATAA	CTTGACTCCT	AAAGTGGTAT	TGTACAGTGA	AGATGTAGAT	ATAGAAACCC
19621	CAGACACTCA	TATTTCTTAC	ATGCCCCACTA	TTAAGGAAGG	TAACCTACGA	GAACTAATGG
19681	GCCAAACAATC	TATGCCCAAC	AGGCCTAATT	ACATTGCTTT	TAGGGACAAT	TTTATTGGTC
19741	TAATGTATTA	CAACAGCACG	GGTAATATGG	GTGTTCTGGC	GGGCAAGCA	TCGCAGTTGA
19801	ATGCTGTTGT	AGATTTGCAA	GACAGAAACA	CAGAGCTTTC	ATACCAGCTT	TTGCTTGATT
19861	CCATTGGTGA	TAGAACCAGG	TACTTTTCTA	TGTGGAATCA	GGCTGTTGAC	AGCTATGATC
19921	CAGATGTTAG	AATTATTGAA	AATCATGGAA	CTGAAGATGA	ACTTCCAAAT	TACTGCTTTC
19981	CACTGGGAGG	TGTGATTAAT	ACAGAGACTC	TTACCAAGGT	AAAACCTAAA	ACAGGTCAGG
20041	AAAATGGATG	GGAAAAAGAT	GCTACAGAAT	TTTCAGATAA	AAATGAAATA	AGAGTTGGAA
20101	ATAATTTTGC	CATGGAAATC	AATCTAAATG	CCAACCTGTG	GAGAAATTC	CTGTACTCCA
20161	ACATAGCGCT	GTATTTGCCC	GACAAGCTAA	AGTACAGTCC	TTCCAAACGTA	AAAATTTCTG
20221	ATAACCCAAA	CACCTACGAC	TACATGAACA	AGCGAGTGGT	GGCTCCCGGG	TTAGTGGAAT
20281	GCTACATTAA	CCTTGAGACA	CGCTGGTCCC	TTGACTATAT	GGACAACGTC	AACCCATTTA
20341	ACCACCACCG	CAATGCTGGC	CTGCGCTACC	GCTCAATGTT	GCTGGGCAAT	GGTCGCTATG
20401	TGCCCTTCCA	CATCCAGGTG	CCTCAGAAGT	TCTTTGCCAT	TAAAAACCTC	CTTCTCCTCG
20461	CGGGCTCATA	CACCTACGAG	TGGAACCTCA	GGAAGGATGT	TAACATGGTT	CTGCAGAGCT
20521	CCCTAGGAAA	TGACCTAAGG	GGTGACGGAG	CCAGCATTA	GTTTGATAGC	ATTTGCCCTT
20581	ACGCCACCTT	CTTCCCCATG	GCCCACAACA	CCGCTCCAC	GCTTGAGGCC	ATGCTTAGAA
20641	ACGACACCAA	CGACCAGTCC	TTTAACGACT	ATCTCTCCGC	CGCCAACATG	CTCTACCCTA
20701	TACCCGCGAA	CGCTACCAAC	GTGCCCATAT	CCATCCCCCT	CCGCAACTGG	GCGGCTTTCC
20761	GCGGCTGGGC	CTTCACGCGC	CTTAAGACTA	AGGAAACCCC	ACTACTGGGC	TCGGGCTACG
20821	ACCTTATTA	CACCTACTCT	GGCTCTATAC	CCTACCTAGA	TGGAACCTTT	TACCTCAACC
20881	ACACCTTTAA	GAAGGTGGCC	ATTACCTTTG	ACTCTTCTGT	CAGCTGGCCT	GGCAATGACC
20941	GCCTGCTTAC	CCCCAACGAG	TTTGAAATTA	AGCGCTCAGT	TGACGGGGAG	GGTTACAACG
21001	TTGCCCAGTG	TAACATGACC	AAAGACTGGT	TCCTGGTACA	AATGCTAGCT	AACATAACA
21061	TTGGCTACCA	GGGCTTCTAT	ATCCCCAGAGA	GCTACAAGGA	CCGCATGTAC	TCCTTCTTTA
21121	GAAACTTTCCA	GCCCATGAGC	CGTCAGGTGG	TGGATGATAC	TAAATAACAAG	GACTACCAAC
21181	AGGTGGGCAT	CCTACACCAA	CACAACAAC	CTGGATTGTG	TGGCTACCTT	GCCCCACCA
21241	TGCGCGAAGG	ACAGGCCTAC	CCTGCTAACT	TCCCCATATC	GCTTATAGGC	AAGACCGCAG
21301	TTGACAGCAT	TACCCAGAAA	AAGTTTCTTT	GCGATCGCAC	CCTTTGGCGC	ATCCCATTCT
21361	CCAGTAACTT	TATGTCCATG	GGCGCACTCA	CAGACCTGGG	CCAAAACCTT	CTCTACGCCA
21421	ACTCCGCCCA	CGCGCTAGAC	ATGACTTTTG	AGGTGGATCC	CATGGACGAG	CCCACCTTTC
21481	TTTATGTTTT	GTTTGAAGTC	TTTGACGTGG	TCCGTGTGCA	CCGGCCGCAC	CGCGGCGTCA
21541	TCGAAACCGT	GTACCTGCGC	ACGCCCTTCT	CGGCCGGCAA	CGCCACAACA	TAAAGAAACA
21601	AGCAACATCA	ACAACAGCTG	CCGCCATGGG	CTCCAGTGAG	CAGGAACGCT	TTCAGGCTT
21661	CAAAGATCTT	GGTTGTGGGC	CATATTTTTT	GGGCACCTAT	GACAACTGTA	AGACTGGGGG
21721	TGTTTTCTCCA	CACAAGCTCG	CCTGCGCCAT	AGTCAATACG	GCCGGTCGCG	AGACTGGGGG
21781	CGTACACTGG	ATGGCCTTTG	CCTGGAACCC	GCACTACAAA	ACATGCTACC	TCTTTGAGCC
21841	CTTTGGCTTT	TCTGACCAGC	GACTCAAGCA	GGTTTACAG	TTTGAGTACG	AGTCACTCCT
21901	GCGCCGTAGC	GCCATTGCTT	CTTCCCCGGA	CCGCTGTATA	ACGCTGGAAA	AGTCCACCCA
21961	AAGCGTACAG	GGGCCCCAAT	CGGCCGCTG	TGGACTATTC	TGCTGCATGT	TTCTCCACCG
22021	CTTTGCCAAC	TGGCCCCAAA	CTCCCATGGA	TCACAACCCC	ACCATGAACC	TTATTACCGG
22081	GGTACCCAAAC	TCCATGCTCA	ACAGTCCCCA	GGTACAGCCC	ACCCTGCGTC	GCAACACGGA
22141	ACAGCTCTAC	AGCTTCTTGG	AGCGCCACTC	GCCCTACTTC	CGCAGCCACA	GTGCGCAGAT
22201	TAGGAGCGCC	ACTTCTTTTT	GTCACTTGAA	AAACATGTAA	AAATAATGTA	CTAGAGACAC
22261	TTTCAATAAA	GGCAAATGCT	TTTATTTGTA	CACTCTCGGG	TGATTATTTA	CCCCACCCCT
22321	TGCCGTCTGC	GCCGTTTAAA	AATCAAAGGG	GTCTGCGCG	GCATCGCTAT	GCGCCACTGG
22381	CAGGGACACG	TTGCGATACT	GGTGTTTAGT	GCTCCACTTA	AACTCAGGCA	CAACCATCCG
22441	CGGCAGCTCG	GTGAAGTTTT	CACCTCCACG	GCTGCGCACC	ATCACCACG	CGTTTAGCAG
22501	GTCGGGCGCC	GATATCTTGA	AGTCGAGTT	GGGGCCTCCG	CCCTGCGCGC	GCGAGTTGCG
22561	ATACACAGGG	TTGCAGCACT	GGAACACTAT	CAGCGCCGGG	TGGTGACAGG	TGGCCAGCAC
22621	GCTCTTGTCG	GAGATCAGAT	CCGCGTCCAG	GTCCTCCGCG	TTGCTCAGGG	GGAACGGAGT
22681	CAACTTTGGT	AGCTGCCTTC	CCAAAAAGGG	CGCGTGCCCA	GGCTTTGAGT	TGCACTCGCA
22741	CCGTAGTGGC	ATCAAAAGGT	GACCGTGCCC	GGTCTGGGCG	TTAGGATACA	GCGCCTGCAT
22801	AAAAGCCTTG	ATCTGCTTAA	AAGCCACCTG	AGCCTTTGCG	CCTTCAGAGA	AGAACATGCC

kd3

22981 GCTAGACTGC TCCTTCAGCG CGCGCTGCCC GTTTTCGCTC GTCACATCCA TTTCAATCAC
 23041 GTGCTCCTTA TTTATCATAA TGCTTCCGTG TAGACACTTA AGCTCGCCTT CGATCTCAGC
 23101 GCAGCGGTGC AGCCACAACG CGCAGCCCGT GGGCTCGTGA TGCTTGTAAG TCACCTCTGC
 23161 AAACGACTGC AGGTACGCCT GCAGGAATCG CCCCATCATC GTCACAAAGG TCTTGTGTCT
 23221 GGTGAAGGTC AGCTGCAACC CGCGGTGCTC CTCGTTCAGC CAGGTCTTGC ATACGGCCGC
 23281 CAGAGCTTCC ACTTGGTCAG GCAGTAGTTT GAAGTTCGCC TTTAGATCGT TATCCACGTG
 23341 GTACTTGTCC ATCAGCGCGC GCGCAGCCTC CATGCCCTTC TCCCACGCAG ACACGATCGG
 23401 CACACTCAGC GGGTTCATCA CCGTAATTTT ACTTTCCGCT TCGCTGGGCT CTTCTCTCTC
 23461 CTCTTGCGTC CGCATACCAC GCGCCACTGG GTCGTCTTCA TTCAGCCGCC GCACTGTGCG
 23521 CTTACCTCCT TTGCCATGCT TGATTAGCAC CGGTGGGTTG CTGAAACCCA CCATTGTAGT
 23581 CGCCACATCT TCTCTTTCTT CCTCGCTGTC CACGATTACC TCTGGTGATG GCGGGCGCTC
 23641 GGGCTTGGGA GAAGGGCGCT TCTTTTCTT CTTGGGCGCA ATGGCCAAAT CCGCCGCCGA
 23701 GGTCGATGGC CGCGGGCTGG GTGTGCGCGG CACCAGCGCG TCTTGTGATG AGTCTTCTC
 23761 GTCCTCGGAC TCGATACGCC GCCTCATCCG CTTTTTGGG GCGGCCGGG GAGGCGCGG
 23821 CGACGGGGAC GGGGACGACA CGTCTCCAT GGTGGGGGA CGTCGCGCCG CACCGCGTCC
 23881 GCGCTCGGGG GTGGTTTCGC GCTGCTCCTC TTCCCGACTG GCCATTTCTT TCTCTATAG
 23941 GCAGAAAAAG ATCATGGAGT CAGTCGAGAA GAAGGACAG CTAACCGCCC CCTCTGAGT
 24001 CGCCACCACC GCCTCCACCG ATGCCGCCAA CGCGCCTACC ACCTTCCCCG TCGAGGCACC
 24061 CCCGCTTGAG GAGGAGGAAG TGATTATCGA GCAGGACCCA GGTTTTGTA GCGAAGACGA
 24121 CGAGGACCGC TCAGTACCAA CAGAGGATAA AAAGCAAGAC CAGGACAACG CAGAGGCAAA
 24181 CGAGGAACAA GTCGGGCGGG GGGACGAAAG GCATGCGGAC TACCTAGATG TGGGAGACGA
 24241 CGTGCTGTTG AAGCATCTGC AGCGCCAGTG CGCCATTATC TGCGACGCGT TGCAAGAGCG
 24301 CAGCGATGTG CCCCTCGCCA TAGCGGATGT CAGCCTTGCC TACGAACGCC ACCTATTCTC
 24361 ACCGCGCGTA CCCCCCAAAC GCCAAGAAAA CGGCACATGC GAGCCCAACC CGCGCCTCAA
 24421 CTTCTACCCC GTATTTGCCG TGCCAGAGGT GCTTGCCACC TATCACATCT TTTTCAAAA
 24481 CTGCAAGATA CCCCTATCCT GCCGTGCCAA CCGCAGCCGA GCGGACAAGC AGCTGGCCTT
 24541 GCGGCAGGGC GCTGTCTATC CTGATATCGC CTCGCTCAAC GAAGTGCCAA AAATCTTTGA
 24601 GGGTCTTGGA CGCGACGAGA AGCGCGCGGC AAACGCTCTG CAACAGGAAA ACAGCGAAAA
 24661 TGAAAGTCAC TCTGGAGTGT TGGTGGAACT CGAGGGTGAC AACGCGCGCC TAGCCGTACT
 24721 AAAACGCAGC ATCGAGGTCA CCCACTTTGC CTACCCGGCA CTTAACCTAC CCCCCAAGT
 24781 CATGAGCACA GTCATGAGTG AGCTGATCGT GCGCCGTGCG CAGCCCCTGG AGAGGGATGC
 24841 AAATTTGCAA GAACAAACAG AGGAGGGCCT GGAGGAGCGA CGCAAATAA TGATGGCCGC
 24901 CTGGCTTCAA ACCGTGGAGC CTGCCGACTT TGAGTGCAT GCAGCGGTTT TTTGCTGACC CCGAGATGCA
 24961 AGTGCTCGTT ACCGTGGAGC TGCACTACAC CTTTCGACAG GGCTACGTAC GCCAGGCTG
 25021 GCGCAAGCTA GAGGAAACAT TCTGCAACCT GGTCTCTAC CTTGGAATTT TGCACGAAAA
 25081 CAAGATCTCC AACGTGGAGC TCTGCAACCT GGTCTCTAC CTTGGAATTT TGCACGAAAA
 25141 CCGCCTTGGG CAAAACGTGC TTCTATCCAC GCTCAAGGGC GAGGCGCGCC GCGACTACGT
 25201 CCGCAGTGC GTTTACTTAT TTCTATGCTA CACCTGGCAG ACGGCCATGG GCGTTTGGCA
 25261 GCAGTGCTTG GAGGAGTGCA ACCTCAAGGA GCTGCAGAAA CTGCTAAAGC AAAACTTGAA
 25321 GGACCTATGG ACGGCCTTCA ACGAGCGCTC CGTGGCCGCG CACCTGGCGG ACATCATTTT
 25381 CCCCAGAACGC CTGCTTAAAA CCCTGCAACA GGGTCTGCCA GACTTCACCA GTCAAAGCAT
 25441 GTTGCAAGAC TTTAGGAACCT TTATCCTAGA GCGCTCAGGA ATCTTGCCCG CCACCTGCTG
 25501 TGCACTTCCT AGCGACTTTG TGCCCATTA GATCCGCGAA TGCCCTCCGC CGCTTTGGGG
 25561 CCACTGCTAC CTTCTGCAGC TAGCCAACTA CTTGCTTAC CACTCTGACA CCCCACCCG
 25621 CGTGAGCGGT GACGGTCTAC TGGAGTGTA CTGTGCTGC AACCTATGCA CCCCACCCG
 25681 CTCCCTGGTT TGCAATTGCG AGCTGCTTAA CGAAAGTCAA ATTATCGGTA CCTTTGAGCT
 25741 GCAGGGTCCC TCGCCTGACG AAAAGTCCCG GGCTCCGGGG TTGAAACTCA CTCGGGGGCT
 25801 GTGGACGTCG GCTTACCTTC GCAAATTTGT ACCTGAGGAC TACCACGCCC ACGAGATTAG
 25861 GTTCTACGAA GACCAATCCC GCCCGCCAAA TGCGGAGCTT ACCGCCTGCG TCATTACCCA
 25921 GGGCCACATT CTTGGCCAAT TGCAAGCCAT CAACAAAGCC CGCCAAGAGT TTCTGCTACG
 25981 AAAGGGACGG GGGGTTTACT TGGACCCCA GTCCGCGGAG GAGCTCAACC CAATCCCCC
 26041 GCCGCCGCGC CCCTATCAGC AGCAGCCGCG GGCCCTTGCT TCCCAGGATG GCACCCAAAA
 26101 AGAAGCTGCA GCTGCCGCCG CCACCCACGG ACGAGGAGGA ATACTGGGAC AGTCAGGCAG
 26161 AGGAGGTTTT GGACGAGGAG GAGGAGGACA TGATGGAAGA CTGGGAGAGC CTAGACGAGG
 26221 AAGCTTCCGA GGTGCAAGAG GTGTGACAG AAACACCGTC ACCCTCGGTC GCATTCCCCT
 26281 CGCCGGCGCC CCAGAAATCG GCAACCGGTT CCAGCATGGC TACAACCTCC GCTCCTCAGG
 26341 CGCCGCCGGC ACTGCCCCGT CGCCGACCCA ACCGTAGATG GGACACCACT GGAACCAGGG

FIGURE 23
(SHEET 8)

00351778-071200

26401	CCGGTAAGTC	CAAGCAGCCG	CCGCCGTTAG	CCCAAGAGCA	ACAACAGCGC	CAAGGCTACC
26461	GCTCATGGCG	CGGGCACAAG	AACGCCATAG	TTGCTTGCTT	GCAAGACTGT	GGGGGCAACA
26521	TCTCCTTCGC	CCGCCGCTTT	CTTCTCTACC	ATCACGGCGT	GGCCTTCCCC	CGTAACATCC
26581	TGCATTACTA	CCGTCATCTC	TACAGCCCAT	ACTGCACCGG	CGGCAGCGGC	AGCGGCAGCA
26641	ACAGCAGCGG	CCACACAGAA	GCAAAGGCGA	CCGGATAGCA	AGACTCTGAC	AAAGCCCAAG
26701	AAATCCACAG	CGGCGGCAGC	AGCAGGAGGA	GGAGCGCTGC	GTCTGGCGCC	CAACGAACCC
26761	GTATCGACCC	GCGAGCTTAG	AAACAGGATT	TTTCCCACTC	TGTATGCTAT	ATTTCAACAG
26821	AGCAGGGGCC	AAGAACAAGA	GCTGAAAATA	AAAAACAGGT	CTCTGCGATC	CCTCACCCTG
26881	AGCTGCCTGT	ATCACAAAAG	CGAAGATCAG	CTTCGGCGCA	CGCTGGAAGA	CGCGGAGGCT
26941	CTCTTCAGTA	AATACTGCGC	GCTGACTCTT	AAGGACTAGT	TTCGCGCCCT	TTCTCAAATT
27001	TAAGCGCGAA	AACTACGTCA	TCTCCAGCGG	CCACACCCGG	CGCCAGCACC	TGTCGTCAGC
27061	GCCATTATGA	GCAAGGAAAT	TCCCACGCCC	TACATGTGGA	GTTACCAGCC	ACAAATGGGA
27121	CTTGCGGCTG	GAGCTGCCCA	AGACTACTCA	ACCCGAATAA	ACTACATGAG	CGCGGGACCC
27181	CACATGATAT	CCCGGGTCAA	CGGAATCCGC	GCCCACCGAA	ACCGAATTCT	CTTGGAACAG
27241	GCGGCTATTA	CCACCACACC	TCGTAATAAC	CTTAATCCCC	GTAGTTGGCC	CGCTGCCCTG
27301	GTGTACCAGG	AAAGTCCCCG	TCCCACCACT	GTGGTACTTC	CCAGAGACGC	CCAGGCCGAA
27361	GTTTCAGATGA	CTAACTCAGG	GGCGCAGCTT	GCGGGCGGCT	TTCGTACACG	GGTGCGGTGC
27421	CCCGGGCAGG	GTATAACTCA	CCTGACAATC	AGAGGGCGAG	GTATTCAGCT	CAACGACGAG
27481	TCGGTGAGCT	CCTCGCTTGG	TCTCCGTCCG	GACGGGACAT	TTCAGATCGG	CGCGGCCCGC
27541	CGTCCTTCAT	TCACGCCCTG	TCAGGCAATC	CTAACTCTGC	AGACCTCGTC	CTCTGAGCCG
27601	CGTCTGGAG	GCATTGGAAC	TCTGCAATTT	ATTGAGGAGT	TTGTGCCATC	GGTCTACTTT
27661	AACCCCTTCT	CGGGACCTCC	CGGCCACTAT	CCGGATCAAT	TTATTCCTAA	CTTTGACGCG
27721	GTAAAGGACT	CGGCGGACGG	CTACGACTGA	ATGTTAAGTG	GAGAGGCAGA	GCAACTGCGC
27781	CTGAAACACC	TGGTCCACTG	TCGCCGCCAC	AAGTGCTTTG	CCCGGACTC	CGGTGAGTTT
27841	TGCTACTTTG	AATTGCCCGA	GGATCATATC	GAGGGCCCGG	CGCACGGCGT	CCGGCTTACC
27901	GCCCAGGGAG	AGCTTGCCCC	TAGCCTGATT	CGGGAGTTTA	CCCAGCGCCC	CCTGCTAGTT
27961	GAGCGGGACA	GGGGACCTTG	TGTTCTCACT	GTGATTTGCA	ACTGTCCTAA	CCTTGATTA
28021	CATCAAGATC	TTTGTTGCCA	TCTCTGTGCT	GAGTATAATA	AATACAGAAA	TTAAATATA
28081	CTGGGGCTCC	TATCGCCATC	CTGTAAACGC	CACCGTCTTC	ACCCGCCCAA	GCAAACCAAG
28141	GCGAACCTTA	CCTGGTACTT	TTAACATCTC	TCCCTCTGTG	ATTTACAACA	GTTTCAACCC
28201	AGACGGAGTG	AGTCTACGAG	AGAACCTCTC	CGAGCTCAGC	TACTCCATCA	GAAAAACAC
28261	CACCCCTCCT	ACCTGCCGGG	AACGTACGAG	TGCGTCACCG	GCCGCTGCAC	CACACCTACC
28321	GCCTGACCGT	AAACCAGACT	TTTTCCGGAC	AGACCTCAAT	AACCTGTGTT	ACCAGAACAG
28381	GAGGTGAGCT	TAGAAAAACC	TTAGGGTATT	AGGCCAAAGG	CGCAGCTACT	GTGGGGTTTA
28441	TGAACAATTC	AAGCAACTCT	ACGGGCTATT	CTAATTCAGG	TTTCTCTAG	AGTCAGGCTT
28501	CCTGGATGTC	AGCATCTGAC	TTTGCCAGC	ACCTGTCCCG	CGGATTGTT	CCAGTCCAAC
28561	TACAGCGACC	CACCCTAACA	GAGATGACCA	ACACAACCAA	CAATAACTGG	GATAACTTGG
28621	TTACATCTAC	CACAAATACA	CCCCAAGTTT	CTGCCTTTGT	TATTATTATG	TGGCTCATCT
28681	GCATGTGGTG	GTTCTCCATA	GCGCTTATGT	TTGTATGCCT	TATTTATATG	TGGCTACACC
28741	GCTGCCTAAA	GCGCAAACGC	GCCCGACCAT	CCATCTATAG	TCCCATCATT	TCTCTTACAG
28801	CAAACAATGA	TGGAATCCAT	AGATTGGACG	GACTGAAACA	CATGTTCTTT	TCTCTTACAG
28861	TATGATTAAA	TGAGATCTAG	AAATGGACGG	AATTATTACA	GAGCAGCGCC	TGCTAGAAAG
28921	ACGCAGGGCA	GCGGCCGAGC	AACAGCGCAT	GAATCAAGAG	CTCCAAGACA	TGGTTAACTT
28981	GCACCAAGTC	AAAAGGGGTA	TCTTTTGTCT	GGTAAAGCAG	GCCAAAGTCA	CCTACGACAG
29041	TAATACCACC	GGACACCGCC	TTAGCTACAA	GTTGCCAACC	AAGCGTCAGA	AATTGGTGGT
29101	CATGGTGGGA	GAAAAGCCCC	TTACCATAAC	TCAGCACTCG	GTAGAAACCG	AAGGCTGCAT
29161	TCACTCACCT	TGTCAAGGAC	CTGAGGATCT	CTGCACCCTT	ATTAAGACCC	TGTGCGGTCT
29221	CAAAGATCTT	ATTCCCTTTA	ACTAATAAAA	AAAAATAATA	AAGCATCACT	TACTTAAAT
29281	CAGTTAGCAA	ATTTCTGTCC	AGTTTATTCA	GCAGCACCTC	CTTGCCCTCC	TCCCAGCTCT
29341	GGTATTGCAG	CTTCCTCCTG	GCTGCAAACT	TTCTCCACAA	TCTAAATGGA	ATGTCAGTTT
29401	CCTCCTGTTT	CTGTCCATCC	GCACCCACTA	TCTTCATGTT	GTTGCAGATG	AAGCGCGCAA
29461	GACCGTCTGA	AGATACCTTC	AACCCCGTGT	ATCCATATGA	CACGGAAACC	GGTCCCTCAA
29521	CTGTGCCCTT	TCTTACTCCT	CCCTTTGTAT	CCCCCAATGG	GTTTCAAGAG	AGTCCCCCTG
29581	GGGTACTCTC	TTTGCGCCTA	TCCGAACCTC	TAGTTACCTC	CAATGGCATG	CTTGCGCTCA
29641	AAATGGGCAA	CGGCCTCTCT	CTGGACGAGG	CCGGCAACCT	TACCTCCCAA	AATGTAACCA
29701	CTGTGAGCCC	ACCTCTCAAA	AAAACCAAGT	CAAACATAAA	CCTGGAATAA	TCTGCACCCC
29761	TCACAGTTAC	CTCAGAAGCC	CTAACTGTGG	CTGCCGCCGC	ACCTCTAATG	GTCCGCGGCA

FIGURE 23
(SHEET 9)

0954778-071299

29821	ACACACTCAC	CATGCAATCA	CAGGCCCCGC	TAACCGTGCA	CGACTCCAAA	CTTAGCATTG
29881	CCACCCAAGG	ACCCCTCACA	GTGTGAGAAG	GAAAGCTAGC	CCTGCAAACA	TCAGGCCCCC
29941	TCACCACCAC	CGATAGCAGT	ACCCTTACTA	TCACTGCCTC	ACCCCTCTA	ACTACTGCCA
30001	CTGGTAGCTT	GGGCATTGAC	TTGAAAGAGC	CCATTTATAC	ACAAAATGGA	AAACTAGGAC
30061	TAAAGTACGG	GGCTCCTTTG	CATGTAACAG	ACGACCTAAA	CACCTTGACC	GTAGCAACTG
30121	GTCCAGGTGT	GACTATTAAT	AATACTTCCT	TGCAAACATA	AGTTACTGGA	GCCTTGGGTT
30181	TTGATTACACA	AGGCAATATG	CAACTTAATG	TAGCAGGAGG	ACTAAGGATT	GATTCTCAAA
30241	ACAGACGCCT	TATACTTGAT	GTTAGTTATC	CGTTTGATGC	TCAAAACCAA	CTAAATCTAA
30301	GACTAGGACA	GGGCCCTCTT	TTTATAAACT	CAGCCCACAA	CTTGATATT	AACTACAACA
30361	AAGGCCTTTA	CTTGTTTACA	GCTTCAAACA	ATTCCAAAAA	GCTTGAGGTT	AACCTAAGCA
30421	CTGCCAAGGG	GTTGATGTTT	GACGCTACAG	CCATAGCCAT	TAATGCAGGA	GATGGGCTTG
30481	AATTTGGTTC	ACCTAATGCA	CCAAACACAA	ATCCCCTCAA	AACAAAAATT	GGCCATGGCC
30541	TAGAAATTTGA	TTCAAACAAG	GCTATGGTTC	CTAAACTAGG	AACTGGCCTT	AGTTTGGACA
30601	GCACAGGTGC	CATTACAGTA	GGAAACAAAA	ATAATGATAA	GCTAACTTTG	TGGACCACAC
30661	CAGCTCCATC	TCCTAACTGT	AGACTAAATG	CAGAGAAAGA	TGCTAAACTC	ACTTTGGTCT
30721	TAACAAAATG	TGGCAGTCAA	ATACTTGCTA	CAGTTTCAGT	TTTGGCTGTT	AAAGGCAGTT
30781	TGGCTCCAAT	ATCTGGAACA	GTTCAAAGTG	CTCATCTTAT	TATAAGATTT	GACGAAAATG
30841	GAGTGCTACT	AAACAATTCC	TTCTGGGACC	CAGAATATTG	GAACCTTTAGA	AATGGAGATC
30901	TTACTGAAGG	CACAGCCTAT	ACAAACGCTG	TTGGATTTAT	GCCTAACCTA	TCAGCTTATC
30961	CAAAATCTCA	CGGTAAAAC	GCCAAAAGTA	ACATTGTCAG	TCAAGTTTAC	TTAAACGGAG
31021	ACAAAACATA	ACCTGTAACA	CTAACCATTA	CACTAAACGG	TACACAGGAA	ACAGGAGACA
31081	CAACTCCAAG	TGCATACTCT	ATGTCAATTT	CATGGGACTG	GTCTGGCCAC	AACTACATTA
31141	ATGAAATATT	TGCCACATCC	TCTTACACTT	TTTCATACAT	TGCCCCAAGAA	TAAAGAATCG
31201	TTTGTGTTAT	GTTTCAACGT	GTTTATTTTT	CAATTGCAGA	AAATTTCAAG	TCATTTTTC
31261	TTCAGTAGTA	TAGCCCCACC	ACCACATAGC	TTATACAGAT	CACCGTACCT	TAATCAAACT
31321	CACAGAACCC	TAGTATTC	CCTGCCACCT	CCCTCCCAAC	ACACAGAGTA	CACAGTCCCT
31381	TCTCCCCGGC	TGGCCTTAAA	AAGCATCATA	TCATGGGTAA	CAGACATATT	CTTAGTGT
31441	ATATTCCACA	CGGTTTCC	TCGAGCCAAA	CGCTCATCAG	TGATATTAAT	AACTCCCCG
31501	GGCAGCTCAC	TTAAGTTCAT	GTCGCTGTCC	AGCTGCTGAG	CCACAGGCTG	CTGTCCAAC
31561	TGCGGTTGCT	TAACGGGCGG	CGAAGGAGAA	GTCCACGCCT	ACATGGGGGT	AGAGTCATAA
31621	TCGTGCATCA	GGATAGGGCG	GTGGTGCTGC	AGCAGCGCGC	GAATAAACTG	CTGCCGCCGC
31681	CGCTCCGTCC	TGCAGGAATA	CAACATGGCA	GTGGTCTCCT	CAGCGATGAT	TCGCACCGCC
31741	CGCAGCATAA	GGCGCCTTGT	CCTCCGGGCA	CAGCAGCGCA	CCCTGATCTC	ACTTAAATCA
31801	GCACAGTAAC	TGCAGCACAG	CACCACAATA	TTGTTCAAAA	TCCCACAGTG	CAAGGCGCTG
31861	TATCCAAAGC	TCATGGCGGG	GACCACAGAA	CCCACGTGGC	CATCATACCA	CAAGCGCAGG
31921	TAGATTAAGT	GGCGACCCCT	CATAAACACG	CTGGACATAA	ACATTACCTC	TTTGGCATG
31981	TTGTAAATCA	CCACCTCCCG	GTACCATATA	AACCTCTGAT	TAAACATGGC	GCCATCCACC
32041	ACCATCCTAA	ACCAGCTGGC	CAAAACCTGC	CCGCCGGCTA	TACACTGCAG	GGAACCGGGA
32101	CTGGAACAAT	GACAGTGGAG	AGCCCAGGAC	TCGTAACCAT	GGATCATCAT	GCTCGTCATG
32161	ATATCAATGT	TGGCACAACA	CAGGCACACG	TGCATACACT	TCCTCAGGAT	TACAAGCTCC
32221	TCCCGCGTTA	GAACCATATC	CCAGGGAACA	ACCCATTCTC	GAATCAGCGT	AAATCCCACA
32281	CTGCAGGGAA	GACCTCGCAC	GTAACCTCACG	TTGTGCATTG	TCAAAGTGTT	ACATTGGGGC
32341	AGCAGCGGAT	GATCCTCCAG	TATGGTAGCG	CGGGTTTCTG	TCTCAAAGG	AGGTAGACGA
32401	TCCCTACTGT	ACGGAGTGCG	CCGAGACAAC	CGAGATCGTG	TTGGTCGTAG	TGTCATGCCA
32461	AATGGAACGC	CGGACGTAGT	CATATTTCTC	GAAGCAAAAC	CAGGTGCGGG	CGTGACAAAC
32521	AGATCTGCGT	CTCCGGTCTC	GCCGCTTAGA	TCGCTCTGTG	TAGTAGTTGT	AGTATATCCA
32581	CTCTCTCAAA	GCATCCAGGC	GCCCCCTGGC	TTCCGGTTCT	ATGTAAACTC	CTTCATGCGC
32641	CGCTGCCCTG	ATAACATCCA	CCACCGCAGA	ATAAGCCACA	CCCAGCCAAC	CTACACATTC
32701	GTTCTGCGAG	TCACACACGG	GAGGAGCGGG	AAGAGCTGGA	AGAACCATGT	TTTTTTTTTT
32761	ATTCAAAAG	ATTATCCAAA	ACCTCAAAAT	GAAGATCTAT	TAAGTGAACG	CGCTCCCCTC
32821	CGGTGGCGTG	GTCAAACTCT	ACAGCCAAAG	AACAGATAAT	GGCATTGTGA	AGATGTTGCA
32881	CAATGGCTTC	CAAAAGGCAA	ACGGCCCTCA	CGTCCAAGTG	GACGTAAAGG	CTAAACCCTT
32941	CAGGTGAAT	CTCCTCTATA	AACATTCCAG	CACCTTCAAC	CATGCCAAA	TAATTCTCAT
33001	CTCGCCACCT	TCTCAATATA	TCTCTAAGCA	AATCCCAGAT	ATTAAGTCCG	GCCATTGTAA
33061	AAATCTGCTC	CAGAGCGCCC	TCCACCTTCA	GCTCAAGCA	GCGAATCATG	ATTGCAAAAA
33121	TTCAGGTTCC	TCACAGACCT	GTATAAGATT	CAAAAGCGGA	ACATTAACAA	AAATACCGCG
33181	ATCCCGTAGG	TCCCTTCGCA	GGGCCAGCTG	AACATAATCG	TGCAGGTCTG	CACGGACCAG

FIGURE 23
(SHEET 10)

